

Walt

[illegible]

```

UU      UU      AAAAAA      FFFFFFFFFF      PPPPPPPP      AAAAAA      RRRRRRRR      SSSSSSSS      EEEEEEEEEE
UU      UU      AAAAAA      FFFFFFFFFF      PPPPPPPP      AAAAAA      RRRRRRRR      SSSSSSSS      EEEEEEEEEE
UU      UU      AA      AA      FF      PP      PP      AA      AA      RR      RR      SS      EE
UU      UU      AA      AA      FF      PP      PP      AA      AA      RR      RR      SS      EE
UU      UU      AA      AA      FF      PP      PP      AA      AA      RR      RR      SS      EE
UU      UU      AA      AA      FFFFFFFF      PPPPPPPP      AA      AA      RRRRRRRR      SSSSSS      EEEEEEEE
UU      UU      AA      AA      FFFFFFFF      PPPPPPPP      AA      AA      RRRRRRRR      SSSSSS      EEEEEEEE
UU      UU      AAAAAAAAAA      FF      PP      AAAAAAAAAA      RR      RR      SS      EE
UU      UU      AAAAAAAAAA      FF      PP      AAAAAAAAAA      RR      RR      SS      EE
UU      UU      AA      AA      FF      PP      AA      AA      RR      RR      SS      EE
UU      UU      AA      AA      FF      PP      AA      AA      RR      RR      SS      EE
UUUUUUUUUU      AA      AA      FF      PP      AA      AA      RR      RR      SSSSSSSS      EEEEEEEEEE
UUUUUUUUUU      AA      AA      FF      PP      AA      AA      RR      RR      SSSSSSSS      EEEEEEEEEE
    
```

```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
    
```

```
1 0001 0 module uafparse (  
2 0002 0 language (bliss32),  
3 0003 0 ident = 'V04-000',  
4 0004 0 addressing_mode(external=general, nonexternal=general)) =  
5 0005 1 begin  
6 0006 1  
7 0007 1 *****  
8 0008 1 *  
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
11 0011 1 * ALL RIGHTS RESERVED. *  
12 0012 1 *  
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *  
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *  
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *  
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *  
18 0018 1 * TRANSFERRED. *  
19 0019 1 *  
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *  
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *  
22 0022 1 * CORPORATION. *  
23 0023 1 *  
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *  
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
26 0026 1 *  
27 0027 1 *  
28 0028 1 *****  
29 0029 1  
30 0030 1 ++  
31 0031 1 FACILITY: System Management Utility Program  
32 0032 1  
33 0033 1 ABSTRACT: Parsing subroutines for the AUTHORIZE utility  
34 0034 1  
35 0035 1 ENVIRONMENT:  
36 0036 1  
37 0037 1 AUTHOR: Henry M. Levy , CREATION DATE: 1-June-1977  
38 0038 1  
39 0039 1 MODIFIED BY:  
40 0040 1  
41 0041 1 V03-022 JRL0035 John R. Lawson, Jr. 07-Aug-1984 15:49  
42 0042 1 Fix PWD_EXPIRED login flag to be set with passwords.  
43 0043 1  
44 0044 1 V03-021 JRL0022 John R. Lawson, Jr. 09-Jul-1984 13:40  
45 0045 1 Supply missing brackets (if necessary) on /DIRECTORY.  
46 0046 1  
47 0047 1 V03-020 JRL0011 John R. Lawson, Jr. 02-Jul-1984 14:40  
48 0048 1 Add literal WORD_UNSIGNED_LENGTH (=17) for unsigned  
49 0049 1 words in WS info.  
50 0050 1  
51 0051 1 V03-019 JRL0012 John R. Lawson, Jr. 21-Jun-1984 15:56  
52 0052 1 Add /GENERATE qualifier to generate random passwords.  
53 0053 1  
54 0054 1 V03-018 JRL0008 John R. Lawson, Jr. 20-Jun-1984 14:19  
55 0055 1 Add /PWDEXPIRED qualifier to allow pre-expired passwords.  
56 0056 1  
57 0057 1 V03-017 JRL0007 John R. Lawson, Jr. 20-Jun-1984 14:18
```

58	0058	1	Add /PWDLIFETIME=NONE qualifier.
59	0059	1	
60	0060	1	V03-016 JRL0002 John R. Lawson, Jr. 15-Jun-1984 12:54
61	0061	1	Change all messages to calls to LIB\$SIGNAL, place all
62	0062	1	messages in a .MSG file
63	0063	1	
64	0064	1	V03-015 LY0475 Larry Yetto 9-APR-1984 08:34
65	0065	1	If /NOEXPIRATION or /NOPWDLIFE is specified then
66	0066	1	zero the field in the UAF record.
67	0067	1	
68	0068	1	V03-014 LY0467 Larry Yetto 22-MAR-1984 13:53
69	0069	1	Add support for the rights data base functions
70	0070	1	
71	0071	1	V03-013 ACG0397 Andrew C. Goldstein, 6-Feb-1984 16:25
72	0072	1	Add DISREPORT flag to UAF; fix bugs in storing secondary
73	0073	1	password
74	0074	1	
75	0075	1	V03-012 ACG0388 Andrew C. Goldstein, 12-Jan-1984 18:52
76	0076	1	Add command input to handle new UAF features;
77	0077	1	general code cleanup
78	0078	1	
79	0079	1	V03-011 ACG0385 Andrew C. Goldstein, 6-Jan-1984 14:18
80	0080	1	V4 UAF format change
81	0081	1	
82	0082	1	V03-010 TMK0001 Todd M. Katz 11-Oct-1983
83	0083	1	Add JTQUOTA (job-wide logical name table creation quota)
84	0084	1	qualifier.
85	0085	1	
86	0086	1	V03-009 LMP0153 L. Mark Pilant, 13-Sep-1983 11:41
87	0087	1	Add minimal support for alphanumeric UICs.
88	0088	1	
89	0089	1	008 JWT0105 Jim Teague 04-Apr-1983
90	0090	1	Finish up long filename stuff.
91	0091	1	
92	0092	1	007 JWT0104 Jim Teague 29-Mar-1983
93	0093	1	Add CLITABLES qualifier.
94	0094	1	
95	0095	1	006 WMC0001 Wayne Cardoza 15-Mar-1983
96	0096	1	Add MAXDETACH qualifier
97	0097	1	
98	0098	1	005 JWT0076 Jim Teague 13-Dec-1982
99	0099	1	Fix bug in parsing UIC specs.
100	0100	1	
101	0101	1	004 JWT0046 Jim Teague 30-Jul-1982
102	0102	1	Check null password string earlier in GETPASSWORD
103	0103	1	
104	0104	1	003 JWT0030 Jim Teague 03-May-1982
105	0105	1	Accomodate ufd directory specs
106	0106	1	
107	0107	1	002 JWT0029 Jim Teague 20-Apr-1982
108	0108	1	Completely disable /maxacctjobs
109	0109	1	
110	0110	1	001 JWT0023 Jim Teague 17-Mar-1982
111	0111	1	Enforce default directory syntax more strictly by
112	0112	1	cranking the spec through tparse.
113	0113	1	
114	0114	1	--

```
116 0115 1 |
117 0116 1 | Require files:
118 0117 1 |
119 0118 1 | require
120 0119 1 | 'lib$:uafreq';
121 0215 1 |
122 0216 1 | TABLE OF CONTENTS:
123 0217 1 |
124 0218 1 |
125 0219 1 | forward routine
126 0220 1 |
127 0221 1 |     update_record,      | modify all specified fields
128 0222 1 |     getaccess,          | get access flag bits
129 0223 1 |     check_primary,      | verify 'primary' keyword
130 0224 1 |     check_secondary,    | verify 'secondary' keyword
131 0225 1 |     set_range,          | set hourly restriction bits
132 0226 1 |     getcpum,            | get cpu time quota
133 0227 1 |     getdevice,          | get default device name
134 0228 1 |     getdirectory,       | get default directory
135 0229 1 |     checkvalue,         | check UFD group and member value
136 0230 1 |     checklength,       | check directory name length
137 0231 1 |     getflags,           | get flag bits
138 0232 1 |     getpflags,          | get old per day login flags
139 0233 1 |     getrestrict,        | get old hourly restriction values
140 0234 1 |     getprimedays,       | get primary day list
141 0235 1 |     getpriv,            | get process privileges
142 0236 1 |     getuic,             | get user identification code
143 0237 1 |     parse_uic,          | obtain UIC group and member
144 0238 1 |     parse_wild,         | parse wildcarded user specification
145 0239 1 |     parse_wild_uic,     | parse wildcarded UIC
146 0240 1 |     getstring,          | get string from input
147 0241 1 |     getval,             | get numeric value from user
148 0242 1 |     cvtnum,             | convert decimal ascii to binary
149 0243 1 |     UAF$GENERATE,       | generate necessary passwords
150 0244 1 |     GETPASSWORD,        | update password fields
151 0245 1 |     AUTHORIZE_GENERATE; | Interface to PL/I
152 0246 1 |
153 0247 1 |
154 0248 1 | external routine
155 0249 1 |
156 0250 1 |     GENERATE_PASSWORDS,
157 0251 1 |     SYSS$ASSIGN,
158 0252 1 |     SYSS$DASSGN,
159 0253 1 |     SYSS$QIOW,
160 0254 1 |     LIB$GET_VM,
161 0255 1 |     STR$UPCASE,
162 0256 1 |     STR$UPCASE,
163 0257 1 |     lib$parse           : addressing_mode (general),
164 0258 1 |     lib$lookup_key      : addressing_mode (general),
165 0259 1 |     cli$dcl_parse,
166 0260 1 |     cli$present,
167 0261 1 |     cli$get_value,
168 0262 1 |     faout,              | output formatted message
169 0263 1 |     lgi$hpwd,           | hash password routine
170 0264 1 |     lib$cvd_time,       | convert ASCII to system delta time
171 0265 1 |     lib$cvd_time,       | convert ASCII to system abs time
172 0266 1 |     prv$setpriv;        | set privilege bits based on
```

```
173 0267 1 ! privilege names
174 0268 1
175 0269 1
176 0270 1 ! INCLUDE FILES:
177 0271 1
178 0272 1
179 0273 1 library 'SYSS$LIBRARY:TPAMAC';
180 0274 1 library 'SYSS$LIBRARY:LIB';
181 0275 1
182 0276 1
183 0277 1 ! MACROS:
184 0278 1
185 0279 1
186 0280 1 macro
187 M 0281 1   cstring[] = (uplit byte (%charcount (%string (%remaining)),
188 0282 1   %string (%remaining)))%,
189 0283 1
190 0284 1 ! Macro to create string descriptor for command parameters and
191 0285 1 ! qualifiers
192 0286 1
193 0287 1
194 M 0288 1   sd[a] =
195 0289 1   bind %name ('SD_', a) = $descriptor (a)%;
196 0290 1
197 0291 1
198 P 0292 1   sd (
199 P 0293 1       'token1',      'token2',      'account',      'astlm',
200 P 0294 1       'biolm',       'bytlm',       'cli',          'cputime',
201 P 0295 1       'device',     'diolm',       'directory',    'enqlm',
202 P 0296 1       'fillm',       'flags',       'lgicmd',       'maxjobs',
203 P 0297 1       'owner',       'password',    'pbytlm',       'pflags',
204 P 0298 1       'pgflquota',   'p_restrict', 'prclm',        'priority',
205 P 0299 1       'privileges',  'sflags',     's_restrict',  'shrfillm',
206 P 0300 1       'tqelm',       'uic',         'wsdefault',   'wsextent',
207 P 0301 1       'wsquota',     'display',     'primedays',   'maxacctjobs',
208 P 0302 1       'maxdetach',   'clitables',  'jtquota',     'access',
209 P 0303 1       'batch',       'defprivileges', 'dialup',      'expiration',
210 P 0304 1       'interactive', 'local',       'network',     'pwdlifetime',
211 P 0305 1       'pwdminimum', 'quepriority', 'remote'
212 0306 1   );
213 0307 1
214 0308 1 ! The definition table for flag bits for UAF$B_FLAGS.
215 0309 1
216 0310 1 literal
217 0311 1   num_flags      = 13,      ! number of FLAG_TABLE entries
218 0312 1   num_opflags    = 2,      ! number of OPFLAG_TABLE entries
219 0313 1   num_pdflags    = 7;      ! number of entries in prime days table
220 0314 1
221 0315 1
222 0316 1 own
223 0317 1   flag_table : vector [2 * num_flags + 1, long] initial (
224 0318 1       2 * num_flags,
225 0319 1       uplit (%ascic 'DISCTLY'),    $bitposition (uaf$sv_disctly),
226 0320 1       uplit (%ascic 'DEFCLI'),     $bitposition (uaf$sv_defcli),
227 0321 1       uplit (%ascic 'LOCKPWD'),     $bitposition (uaf$sv_lockpwd),
228 0322 1       uplit (%ascic 'CAPTIVE'),     $bitposition (uaf$sv_captive),
229 0323 1       uplit (%ascic 'DISUSER'),     $bitposition (uaf$sv_disacnt),
```

```
230      0324 1      uplit (%ascic 'DISWELCOME'),      $bitposition (uaf$sv_diswelcom),
231      0325 1      uplit (%ascic 'DISNEWMAIL'),      $bitposition (uaf$sv_dismail),
232      0326 1      uplit (%ascic 'DISMAIL'),      $bitposition (uaf$sv_nomail),
233      0327 1      uplit (%ascic 'GENPWD'),      $bitposition (uaf$sv_genpwd),
234      0328 1      uplit (%ascic 'PWD_EXPIRED'),      $bitposition (uaf$sv_pwd_expired),
235      0329 1      uplit (%ascic 'PWD2_EXPIRED'),      $bitposition (uaf$sv_pwd2_expired),
236      0330 1      uplit (%ascic 'AUDIT'),      $bitposition (uaf$sv_audit),
237      0331 1      uplit (%ascic 'DISREPORT'),      $bitposition (uaf$sv_disreport)
238      0332 1      ),
239      0333 1      ;
240      0334 1      The definition table for flag bits for UAF$B_PDAYFLAGS and UAF$B_SDAYFLAGS.
241      0335 1      ;
242      0336 1      opflag_table : vector [2 * num_opflags + 1, long] initial (
243      0337 1      2 * num_opflags,
244      0338 1      uplit (%ascic 'DISDIALUP'),      uaf$k_disdialup,
245      0339 1      uplit (%ascic 'DISNETWORK'),      uaf$k_disnetwork      ! Disneyworld ??
246      0340 1      ),
247      0341 1      ;
248      0342 1      The definition table for flag bits for UAF$B_PRIMEDAYS.
249      0343 1      ;
250      0344 1      pdflag_table : vector [2 * num_pdflags + 1, long] initial (
251      0345 1      2 * num_pdflags,
252      0346 1      uplit (%ascic 'MONDAY'),      $bitposition (uaf$sv_monday),
253      0347 1      uplit (%ascic 'TUESDAY'),      $bitposition (uaf$sv_tuesday),
254      0348 1      uplit (%ascic 'WEDNESDAY'),      $bitposition (uaf$sv_wednesday),
255      0349 1      uplit (%ascic 'THURSDAY'),      $bitposition (uaf$sv_thursday),
256      0350 1      uplit (%ascic 'FRIDAY'),      $bitposition (uaf$sv_friday),
257      0351 1      uplit (%ascic 'SATURDAY'),      $bitposition (uaf$sv_saturday),
258      0352 1      uplit (%ascic 'SUNDAY'),      $bitposition (uaf$sv_sunday)
259      0353 1      );
260      0354 1      ;
261      0355 1      ;
262      0356 1      ;
263      0357 1      EQUATED SYMBOLS:
264      0358 1      ;
265      0359 1      ;
266      0360 1      literal
267      0361 1      false      = 0,      ! logical false
268      0362 1      true      = 1,      ! logical true
269      0363 1      ;
270      0364 1      network_access      = 1^0,      ! mask representing /NETWORK_ACCESS
271      0365 1      batch_access      = 1^1,      ! mask representing /BATCH_ACCESS
272      0366 1      local_access      = 1^2,      ! mask representing /LOCAL_ACCESS
273      0367 1      dialup_access      = 1^3,      ! mask representing /DIALUP_ACCESS
274      0368 1      remote_access      = 1^4,      ! mask representing /REMOTE_ACCESS
275      0369 1      interactive_access      =      ! mask representing /INTERACTIVE_ACCESS
276      0370 1      local_access or dialup_access or remote_access,
277      0371 1      access_access      =      ! mask representing /ACCESS
278      0372 1      interactive_access or network_access or batch_access,
279      0373 1      ;
280      0374 1      byte_length      = 8,      ! bits per byte
281      0375 1      word_length      = 16,      ! bits per word
282      0376 1      word_unsigned_length      = 17,      ! for WS info
283      0377 1      ;
284      0378 1      long_length      = 32,      ! bits per longword
285      0379 1      ;
286      0380 1      ;
```

```
287 0381 1 blank = ' ', ! delimiters
288 0382 1 colon = ':',
289 0383 1 comma = ',',
290 0384 1 cr = '\r',
291 0385 1 equals = '=',
292 0386 1 lf = '\n',
293 0387 1 lparen = '(',
294 0388 1 rparen = ')',
295 0389 1 slash = '/',
296 0390 1 tab = '\t',
297 0391 1 zero = '0',
298 0392 1
299 0393 1 counted_string = 1, ! counted string type indicator
300 0394 1 filled_string = 2; ! filled string type indicator
301 0395 1
302 0396 1 own
303 0397 1 status,
304 0398 1 cli_status,
305 0399 1
306 0400 1 tparse_block : block [tpa$c_length0, byte]
307 0401 1 preset ([tpa$l_count] = tpa$k_count0,
308 0402 1 [tpa$l_options] = tpa$m_abbrev),
309 0403 1
310 0404 1 converted_uic,
311 0405 1 address,
312 0406 1 left_bit,
313 0407 1 right_bit,
314 0408 1 primary_access : bitvector [32],
315 0409 1 secondary_access : bitvector [32],
316 0410 1 no_flag : initial (false),
317 0411 1 primary : initial (false),
318 0412 1 secondary : initial (false);
319 0413 1
320 0414 1 ! ASCII numbers from '0' through hex 'F'
321 0415 1
322 0416 1
323 0417 1 bind
324 0418 1 numbers = uplit byte ('0123456789ABCDEF'),
325 0419 1
326 0420 1
327 0421 1 ! 'NO' prefix descriptor for negating privileges
328 0422 1
329 0423 1 no_dsc = $descriptor ('NO') : vector;
330 0424 1
331 0425 1
332 0426 1 ! External messages
333 0427 1
334 0428 1
335 0429 1 external routine
336 0430 1
337 0431 1 LIB$SIGNAL: addressing_mode(general);
338 0432 1
339 0433 1 external literal
340 0434 1
341 0435 1 UAF$_BADVALUE, UAF$_EXTRAPARM, UAF$_INVDEV,
342 0436 1 UAF$_INVSTR, UAF$_INVUSERSPEC, UAF$_KEYNOTFND,
343 0437 1 UAF$_NAMETOOBIG, UAF$_NOARG, UAF$_NOQUOTE,
```



```
344 0438 1 UAF$_NOUSERSPEC, UAF$_PRVNOTFND, UAF$_PRVNOTUNG,
345 0439 1 UAF$_PWDSYNTAX, UAF$_PWDNCH, UAF$_PWDNOL
346 0440 1 UAF$_UICERR, UAF$_VALTOOBIG, UAF$_ZCONFLICT;
347 0441 1
348 0442 1
349 0443 1
350 0444 1 !! EXTERNAL REFERENCES:
351 0445 1 !!
352 0446 1
353 0447 1
354 0448 1 external literal
355 0449 1
356 0450 1 encrypt, ! encryption algorithm to use
357 0451 1
358 0452 1 lib$_ambkey, ! status for ambiguous keyword
359 0453 1 lib$_unrkey, ! status for unrecognized keyword
360 0454 1
361 0455 1 cli$_abkeyw, ! message symbol for 'ambiguous keyword'
362 0456 1 cli$_ivkeyw, ! message symbol for 'unrecognized keyword'
363 0457 1 cli$_negated, ! qualifier explicitly negated
364 0458 1 CLIS$_ABSENT, ! Qualifier not given
365 0459 1 prv$_notung,
366 0460 1 prv$_invnam;
367 0461 1
368 0462 1 external ! Global storage from UAFMAIN
369 0463 1 uaf$_gl_ctlmsk : block,
370 0464 1 authorize_commands : addressing_mode ( general ),
371 0465 1 cmdlindsc : block [,byte],
372 0466 1 call_count,
373 0467 1 symbol_str, ! Symbolic character set
374 0468 1 match_tokenlen,
375 0469 1 match_token,
376 0470 1 tokendsc : block [,byte],
377 0471 1 tokenlen : word, ! Bound to TOKENDSC[DSC$_LENGTH]
378 0472 1 tokenptr, ! Bound to TOKENDSC[DSC$_POINTER]
379 0473 1 uic_flag, ! Wildcard parsing flags
380 0474 1 grp_wild,
381 0475 1 mem_wild,
382 0476 1 str_wild,
383 0477 1
384 0478 1 time_buf : block [,byte], ! Buffer to receive current system time
385 0479 1 pwd_flag, ! User did not supply password flag
386 0480 1 recBuf : block [,byte]; ! The current UAF record
387 0481 1
388 0482 1
389 0483 1 !! TPARSE state table to parse /<access> qualifiers
390 0484 1 !!
391 0485 1
392 0486 1 $init_state (access_states, access_keys);
393 0487 1
394 P 0488 1 $state (
395 P 0489 1 ('PRIMARY', terminal, check_primary, true, primary),
396 P 0490 1 ('SECONDARY', terminal, check_secondary, true, secondary),
397 P 0491 1 (tpa$_decimal,,, right_bit)
398 0492 1 );
399 0493 1
400 P 0494 1 $state (,
```

```

: 401      P 0495 1      ('-'),
: 402      P 0496 1      (tpa$_eos, tpa$_exit, set_range)
: 403      P 0497 1      );
: 404      P 0498 1
: 405      P 0499 1 $state (,
: 406      P 0500 1      (tpa$_decimal,, set_range)
: 407      P 0501 1      );
: 408      P 0502 1
: 409      P 0503 1 $state (terminal,
: 410      P 0504 1      (tpa$_eos, tpa$_exit)
: 411      P 0505 1      );
: 412      P 0506 1
: 413      P 0507 1
: 414      P 0508 1
: 415      P 0509 1
: 416      P 0510 1
: 417      P 0511 1 $init_state (restrict_states, restrict_keys);
: 418      P 0512 1
: 419      P 0513 1 $state (,
: 420      P 0514 1      (tpa$_decimal,,,, right_bit)
: 421      P 0515 1      );
: 422      P 0516 1
: 423      P 0517 1 $state (,
: 424      P 0518 1      ('-'),
: 425      P 0519 1      (tpa$_eos, tpa$_exit, set_range)
: 426      P 0520 1      );
: 427      P 0521 1
: 428      P 0522 1 $state (,
: 429      P 0523 1      (tpa$_decimal,, set_range)
: 430      P 0524 1      );
: 431      P 0525 1
: 432      P 0526 1 $state (,
: 433      P 0527 1      (tpa$_eos, tpa$_exit)
: 434      P 0528 1      );
: 435      P 0529 1
: 436      P 0530 1
: 437      P 0531 1
: 438      P 0532 1
: 439      P 0533 1
: 440      P 0534 1 $init_state (uic_states, uic_keys);
: 441      P 0535 1
: 442      P 0536 1 $state (,
: 443      P 0537 1      (tpa$_ident, tpa$_exit,,, converted_uic)
: 444      P 0538 1      );
: 445      P 0539 1
: 446      P 0540 1
: 447      P 0541 1
: 448      P 0542 1
: 449      P 0543 1
: 450      P 0544 1 $init_state (dir_states, dir_keys);
: 451      P 0545 1
: 452      P 0546 1 $state (,
: 453      P 0547 1      ((ufd), end_state),
: 454      P 0548 1      ((subdir), end_state),
: 455      P 0549 1      ('['),
: 456      P 0550 1      ('<'),
: 457      P 0551 1      );
```

```

: 458      0552 1
: 459      P 0553 1 $state (,
: 460      P 0554 1      ( (ufd)),
: 461      P 0555 1      ( (subdir))
: 462      0556 1      );
: 463      0557 1
: 464      P 0558 1 $state (f,');
: 465      P 0559 1      ('>');
: 466      P 0560 1      );
: 467      0561 1
: 468      0562 1
: 469      P 0563 1 $state (end_state,
: 470      P 0564 1      (tpa$_eos, tpa$_exit)
: 471      0565 1      );
: 472      0566 1
: 473      P 0567 1 $state (ufd,
: 474      P 0568 1      (tpa$_octal,, checkvalue)
: 475      0569 1      );
: 476      0570 1
: 477      P 0571 1 $state (f,');
: 478      P 0572 1      );
: 479      0573 1
: 480      0574 1
: 481      P 0575 1 $state (,
: 482      P 0576 1      (tpa$_octal, tpa$_exit, checkvalue)
: 483      0577 1      );
: 484      0578 1
: 485      P 0579 1 $state (subdir,
: 486      P 0580 1      (tpa$_symbol,, checklength)
: 487      0581 1      );
: 488      0582 1
: 489      P 0583 1 $state (f,subdir),
: 490      P 0584 1      (tpa$_lambda, tpa$_exit)
: 491      P 0585 1      );
: 492      0586 1

```

```

494 0587 1 %sbttl 'update_record - modify all specified fields'
495 0588 1 global routine update_record =
496 0589 2 begin
497 0590 2
498 0591 2 ++
499 0592 2
500 0593 2 FUNCTIONAL DESCRIPTION:
501 0594 2
502 0595 2     Scan the remainder of the user's input command line for parameters
503 0596 2     and parameter values.  Pull off each parameter keyword and check
504 0597 2     that it is valid, then call the associated routine to process
505 0598 2     the supplied value or string.
506 0599 2
507 0600 2 INPUTS:
508 0601 2
509 0602 2     none
510 0603 2
511 0604 2 IMPLICIT INPUTS:
512 0605 2
513 0606 2
514 0607 2 OUTPUTS:
515 0608 2
516 0609 2     none
517 0610 2
518 0611 2 IMPLICIT OUTPUTS:
519 0612 2
520 0613 2     none
521 0614 2
522 0615 2 ROUTINE VALUE:
523 0616 2
524 0617 2     true -> all keywords and parameters were specified correctly
525 0618 2
526 0619 2 SIDE EFFECTS:
527 0620 2
528 0621 2     none
529 0622 2 --
530 0623 2 status = false;
531 0624 2 primary = false;
532 0625 2 secondary = false;
533 0626 2 no_flag = false;
534 0627 2
535 0628 2
536 0629 2 : If this is part of a series of calls from WILD_USER, the command
537 0630 2 : line must be reparsed after the first call
538 0631 2
539 0632 2 if .call_count neq 0
540 0633 2 then
541 0634 2     cli$dcl_parse (cmdlindsc, authorize_commands);
542 0635 2
543 0636 2
544 0637 2 if CL$PRESENT(%ascid'GENERATE_PASSWORD')
545 0638 2 and (CL$PRESENT(SD_PASSWORD) neq CL$_ABSENT) then
546 0639 2     begin
547 0640 2
548 0641 2         LIB$SIGNAL(UAF$_ZCONFLICT);
549 0642 2
550 0643 2     end
```

update_record - modify all specified fields

```

551 0644 2 else if CLI$PRESENT(%ascid'GENERATE_PASSWORD')
552 0645 2 or (CLI$PRESENT(SD_PASSWORD) neq CLI$_ABSENT) then
553 0646 2 begin
554 0647 2
555 0648 2     if CLI$PRESENT(%ascid'GENERATE_PASSWORD') then
556 0649 2         UAF$GENERATE();
557 0650 2     if not GETPASSWORD() then
558 0651 2         return FALSE;
559 0652 2     RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
560 0653 2     STATUS = TRUE;
561 0654 2
562 0655 2 end;
563 0656 2
564 0657 2
565 0658 2 if .uaf$gl_ctlmsk[uaf$v_rename]
566 0659 2 then
567 0660 2     return true;
568 0661 2
569 0662 2
570 0663 2 ! Check that we're not at the end of the command line. Continue
571 0664 2 ! processing parameters until the end is reached.
572 0665 2 !
573 0666 2
574 0667 2 cli_status = cli$present (sd_access);
575 0668 2 if .cli_status
576 0669 2 or .cli_status eql cli$_negated
577 0670 2 then
578 0671 2     begin
579 0672 2         if not getaccess (sd_access, access_access, .cli_status)
580 0673 2         then return false;
581 0674 2         status = true;
582 0675 2     end;
583 0676 2
584 0677 2 cli_status = cli$present (sd_interactive);
585 0678 2 if .cli_status
586 0679 2 or .cli_status eql cli$_negated
587 0680 2 then
588 0681 2     begin
589 0682 2         if not getaccess (sd_interactive, interactive_access, .cli_status)
590 0683 2         then return false;
591 0684 2         status = true;
592 0685 2     end;
593 0686 2
594 0687 2 cli_status = cli$present (sd_batch);
595 0688 2 if .cli_status
596 0689 2 or .cli_status eql cli$_negated
597 0690 2 then
598 0691 2     begin
599 0692 2         if not getaccess (sd_batch, batch_access, .cli_status)
600 0693 2         then return false;
601 0694 2         status = true;
602 0695 2     end;
603 0696 2
604 0697 2 cli_status = cli$present (sd_dialup);
605 0698 2 if .cli_status
606 0699 2 or .cli_status eql cli$_negated
607 0700 2 then
```

```

: 608      0701      3      begin
: 609      0702      3      if not getaccess (sd_dialup, dialup_access, .cli_status)
: 610      0703      3      then return false;
: 611      0704      3      status = true;
: 612      0705      3      end;
: 613      0706      3
: 614      0707      2      cli_status = cli$present (sd_network);
: 615      0708      2      if .cli_status
: 616      0709      2      or .cli_status eql cli$_negated
: 617      0710      2      then
: 618      0711      3      begin
: 619      0712      3      if not getaccess (sd_network, network_access, .cli_status)
: 620      0713      3      then return false;
: 621      0714      3      status = true;
: 622      0715      3      end;
: 623      0716      2
: 624      0717      2      cli_status = cli$present (sd_local);
: 625      0718      2      if .cli_status
: 626      0719      2      or .cli_status eql cli$_negated
: 627      0720      2      then
: 628      0721      3      begin
: 629      0722      3      if not getaccess (sd_local, local_access, .cli_status)
: 630      0723      3      then return false;
: 631      0724      3      status = true;
: 632      0725      3      end;
: 633      0726      2
: 634      0727      2      cli_status = cli$present (sd_remote);
: 635      0728      2      if .cli_status
: 636      0729      2      or .cli_status eql cli$_negated
: 637      0730      2      then
: 638      0731      3      begin
: 639      0732      3      if not getaccess (sd_remote, remote_access, .cli_status)
: 640      0733      3      then return false;
: 641      0734      3      status = true;
: 642      0735      3      end;
: 643      0736      2
: 644      0737      2      if cli$present (sd_account)
: 645      0738      2      then
: 646      0739      3      begin
: 647      0740      3      cli$get_value (sd_account, tokendsc);
: 648      0741      3      !*** if not getstring (recbuf[uaf$t_account], uaf$s_account, filled_string)
: 649      0742      3      if not getstring (recbuf[uaf$t_account], 8, filled_string)
: 650      0743      3      then return false;
: 651      0744      3      status = true;
: 652      0745      3      end;
: 653      0746      2
: 654      0747      2      if cli$present (sd_astlm)
: 655      0748      2      then
: 656      0749      3      begin
: 657      0750      3      cli$get_value (sd_astlm, tokendsc);
: 658      0751      3      if not getval (recbuf[uaf$w_astlm], word_length)
: 659      0752      3      then return false;
: 660      0753      3      status = true;
: 661      0754      3      end;
: 662      0755      2
: 663      0756      2      if cli$present (sd_biolm)
: 664      0757      2      then
```

update_record - modify all specified fields

```

: 665      0758 3      begin
: 666      0759 3      cli$get_value (sd_biolm, tokendsc);
: 667      0760 3      if not getval (recbuf[uaf$w_biolm], word_length)
: 668      0761 3      then return false;
: 669      0762 3      status = true;
: 670      0763 3      end;
: 671      0764 3
: 672      0765 2      if cli$present (sd_bytln)
: 673      0766 2      then
: 674      0767 3          begin
: 675      0768 3              cli$get_value (sd_bytln, tokendsc);
: 676      0769 3              if not getval (recbuf[uaf$l_bytln], long_length)
: 677      0770 3              then return false;
: 678      0771 3              status = true;
: 679      0772 3              end;
: 680      0773 2
: 681      0774 2      if cli$present (sd_cli)
: 682      0775 2      then
: 683      0776 3          begin
: 684      0777 3              cli$get_value (sd_cli, tokendsc);
: 685      0778 3              if not getstring (recbuf[uaf$t_defcli], uaf$s_defcli, counted_string)
: 686      0779 3              then return false;
: 687      0780 3              uaf$gl_ctlmsk[uaf$v_clitab_pres] =
: 688      0781 3                  (.vector [recbuf[uaf$t_clitables], 0; ,byte] neq 0);
: 689      0782 3              uaf$gl_ctlmsk[uaf$v_cli] = true;
: 690      0783 3              status = true;
: 691      0784 3              end;
: 692      0785 2
: 693      0786 2      if cli$present (sd_clitables)
: 694      0787 2      then
: 695      0788 3          begin
: 696      0789 3              cli$get_value (sd_clitables, tokendsc);
: 697      0790 3              if not getstring (recbuf[uaf$t_clitables], uaf$s_clitables, counted_string)
: 698      0791 3              then return false;
: 699      0792 3              uaf$gl_ctlmsk[uaf$v_clitables] = true;
: 700      0793 3              status = true;
: 701      0794 3              end;
: 702      0795 2
: 703      0796 2      if cli$present (sd_cputime)
: 704      0797 2      then
: 705      0798 3          begin
: 706      0799 3              cli$get_value (sd_cputime, tokendsc);
: 707      0800 3              if not getcputim (?)
: 708      0801 3              then return false;
: 709      0802 3              status = true;
: 710      0803 3              end;
: 711      0804 2
: 712      0805 2      if cli$present (sd_defprivileges)
: 713      0806 2      then
: 714      0807 3          begin
: 715      0808 3              if not getpriv (sd_defprivileges, recbuf[uaf$q_def_priv])
: 716      0809 3              then return false;
: 717      0810 3              status = true;
: 718      0811 3              end;
: 719      0812 2
: 720      0813 2      if cli$present (sd_device)
: 721      0814 2      then
```

```

: 722      0815 3      begin
: 723      0816 3      cli$get_value (sd_device, tokendsc);
: 724      0817 3      if not getdevice (?)
: 725      0818 3      then return false;
: 726      0819 3      status = true;
: 727      0820 2      end;
: 728      0821 2
: 729      0822 2      if cli$present (sd_dioldm)
: 730      0823 2      then
: 731      0824 3          begin
: 732      0825 3              cli$get_value (sd_dioldm, tokendsc);
: 733      0826 3              if not getval (recbuf[uaf$w_dioldm], word_length)
: 734      0827 3              then return false;
: 735      0828 3              status = true;
: 736      0829 3              end;
: 737      0830 2
: 738      0831 2      if cli$present (sd_directory)
: 739      0832 2      then
: 740      0833 3          begin
: 741      0834 3              cli$get_value (sd_directory, tokendsc);
: 742      0835 3              if not getdirectory ()
: 743      0836 3              then return false;
: 744      0837 3              status = true;
: 745      0838 2              end;
: 746      0839 2
: 747      0840 2      if cli$present (sd_enqlm)
: 748      0841 2      then
: 749      0842 3          begin
: 750      0843 3              cli$get_value (sd_enqlm, tokendsc);
: 751      0844 3              if not getval (recbuf[uaf$w_enqlm], word_length)
: 752      0845 3              then return false;
: 753      0846 3              status = true;
: 754      0847 2              end;
: 755      0848 2
: 756      0849 2      cli_status = cli$present (sd_expiration) ;
: 757      0850 2      if .cli_status eql cli$_negated
: 758      0851 2      then
: 759      0852 3          begin
: 760      0853 3              ch$fill ( 0, uaf$s_expiration, recbuf[uaf$q_expiration] ) ;
: 761      0854 3              status = true ;
: 762      0855 3              end
: 763      0856 2      else
: 764      0857 2          if .cli_status
: 765      0858 2          then
: 766      0859 3              begin
: 767      0860 3                  cli$get_value (sd_expiration, tokendsc);
: 768      0861 4                  if not (status = lib$cvl_time (tokendsc, recbuf[uaf$q_expiration]))
: 769      0862 3                  then
: 770      0863 4                      begin
: 771      0864 4                          signal (.status);
: 772      0865 4                          return false;
: 773      0866 3                      end;
: 774      0867 3                  status = true;
: 775      0868 2                  end;
: 776      0869 2
: 777      0870 2      if cli$present (sd_fillm)
: 778      0871 2      then
```



```

779      0872 3      begin
780      0873      cli$get_value (sd_fillm, tokendsc);
781      0874      if not getval (recbuf[uaf$w_fillm], word_length)
782      0875      then return false;
783      0876      status = true;
784      0877      end;
785      0878
786      0879      if cli$present (sd_flags)
787      0880      then
788      0881      begin
789      0882      if not getflags ()
790      0883      then return false;
791      0884      status = true;
792      0885      end;
793      0886
794      0887      if cli$present (sd_jtquota)
795      0888      then
796      0889      begin
797      0890      cli$get_value (sd_jtquota, tokendsc);
798      0891      if not getval (recbuf[uaf$l_jtquota], long_length)
799      0892      then return false;
800      0893      status = true;
801      0894      end;
802      0895
803      0896      if cli$present (sd_lgicmd)
804      0897      then
805      0898      begin
806      0899      cli$get_value (sd_lgicmd, tokendsc);
807      0900      if not getstring (recbuf[uaf$t_lgicmd], uaf$s_lgicmd, counted_string)
808      0901      then return false;
809      0902      status = true;
810      0903      end;
811      0904
812      0905      if cli$present (sd_maxjobs)
813      0906      then
814      0907      begin
815      0908      cli$get_value (sd_maxjobs, tokendsc);
816      0909      if not getval (recbuf[uaf$w_maxjobs], word_length)
817      0910      then return false;
818      0911      status = true;
819      0912      end;
820      0913
821      0914      if cli$present (sd_maxacctjobs)
822      0915      then
823      0916      begin
824      0917      cli$get_value (sd_maxacctjobs, tokendsc);
825      0918      if not getval (recbuf[uaf$w_maxacctjobs], word_length)
826      0919      then return false;
827      0920      status = true;
828      0921      end;
829      0922
830      0923      if cli$present (sd_maxdetach)
831      0924      then
832      0925      begin
833      0926      cli$get_value (sd_maxdetach, tokendsc);
834      0927      if not getval (recbuf[uaf$w_maxdetach], word_length)
835      0928      then return false;
```

UAFPARSE
V04-000

update_record - modify all specified fields

J 10
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1
Pan 16
(3)

UA
VC

```

836      0929      status = true;
837      0930      end;
838      0931
839      0932      if cli$present (sd_owner)
840      0933      then
841      0934      begin
842      0935      cli$get_value (sd_owner, tokendsc);
843      0936      if not getstring (recbuf[uaf$t_owner], uaf$s_owner, counted_string)
844      0937      then return false;
845      0938      status = true;
846      0939      end;
847      0940
848      0941      if cli$present (sd_pbytlm)
849      0942      then
850      0943      begin
851      0944      cli$get_value (sd_pbytlm, tokendsc);
852      0945      if not getval (recbuf[uaf$l_pbytlm], long_length)
853      0946      then return false;
854      0947      status = true;
855      0948      end;
856      0949
857      0950      if cli$present (sd_pgflquota)
858      0951      then
859      0952      begin
860      0953      cli$get_value (sd_pgflquota, tokendsc);
861      0954      if not getval (recbuf[uaf$l_pgflquota], 3 * byte_length)
862      0955      then return false;
863      0956      status = true;
864      0957      end;
865      0958
866      0959      if cli$present (sd_p_restrict)
867      0960      then
868      0961      begin
869      0962      if not getrestrict (sd_p_restrict)
870      0963      then return false;
871      0964      status = true;
872      0965      end;
873      0966
874      0967      if cli$present (sd_s_restrict)
875      0968      then
876      0969      begin
877      0970      secondary = true;
878      0971      if not getrestrict (sd_s_restrict)
879      0972      then return false;
880      0973      status = true;
881      0974      end;
882      0975
883      0976      if cli$present (sd_pflags)
884      0977      then
885      0978      begin
886      0979      primary = true;
887      0980      if not getpflags (sd_pflags)
888      0981      then return false;
889      0982      status = true;
890      0983      end;
891      0984
892      0985      if cli$present (sd_sflags)
```

```

893 0986 2 then
894 0987     begin
895 0988         if not getpflags (sd_sflags)
896 0989             then return false;
897 0990             status = true;
898 0991             end;
899 0992
900 0993 2 if cli$present (sd_prclm)
901 0994 2 then
902 0995     begin
903 0996         cli$get_value (sd_prclm, tokendsc);
904 0997         if not getval (recbuf[uaf$w_prcnt], word_length)
905 0998             then return false;
906 0999             status = true;
907 1000             end;
908 1001
909 1002 2 if cli$present (sd_primedays)
910 1003 2 then
911 1004     begin
912 1005         if not getprimedays ()
913 1006             then return false;
914 1007             status = true;
915 1008             end;
916 1009
917 1010 2 if cli$present (sd_priority)
918 1011 2 then
919 1012     begin
920 1013         cli$get_value (sd_priority, tokendsc);
921 1014         if not getval (recbuf[uaf$b_pri], byte_length)
922 1015             then return false;
923 1016             status = true;
924 1017             end;
925 1018
926 1019 2 if cli$present (sd_privileges)
927 1020 2 then
928 1021     begin
929 1022         if not getpriv (sd_privileges, recbuf[uaf$q_priv])
930 1023             then return false;
931 1024             status = true;
932 1025             end;
933 1026
934 1027 2 CLI_STATUS = CLISPRESNT(%ascid'PWDEXPIRED');
935 1028 2 if .CLI_STATUS eql CLI$NEGATED then
936 1029     begin
937 1030         local TIME: long;
938 1031         TIME = RECBUF[UAF$q_PWD_DATE];
939 1032         .TIME = 0; (.TIME+%upval) = 0;
940 1033         RECBUF[UAF$v_PWD_EXPIRED] = FALSE;
941 1034         STATUS = TRUE;
942 1035     end
943 1036 2 else if .CLI_STATUS then
944 1037     begin
945 1038         local TIME: long;
946 1039         TIME = RECBUF[UAF$q_PWD_DATE];
947 1040         .TIME = -1; (.TIME+%upval) = -1;
948 1041         RECBUF[UAF$v_PWD_EXPIRED] = FALSE;
949 1042         STATUS = TRUE;
```

```

: 950      1043 2      end;
: 951      1044 2
: 952      1045 2 cli_status = cli$present (sd_pwdlifetime) ;
: 953      1046 2 if .cli_status eql cli$_negated
: 954      1047 2 then
: 955      1048 2     begin
: 956      1049 3     ch$fill ( 0, uaf$s_pwd_lifetime, recbuf[uaf$q_pwd_lifetime] ) ;
: 957      1050 3     RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
: 958      1051 3     status = true ;
: 959      1052 3     end
: 960      1053 2 else
: 961      1054 2     if .cli_status
: 962      1055 2     then
: 963      1056 3     begin
: 964      1057 3     cli$get_value (sd_pwdlifetime, tokendsc);
: 965      1058 3     if ch$eql(.tokendsc[dsc$w_length], .tokendsc[dsc$a_pointer],
: 966      1059 3     4, uplit(%ascii'NONE')) then
: 967      1060 4     begin
: 968      1061 4     ch$fill(0, uaf$s_pwd_lifetime, recbuf[uaf$q_pwd_lifetime] );
: 969      1062 4     status = true;
: 970      1063 4     end
: 971      1064 3     else
: 972      1065 4     if not (status = lib$cvt_dtime (tokendsc, recbuf[uaf$q_pwd_lifetime]))
: 973      1066 3     then
: 974      1067 4     begin
: 975      1068 4     signal (.status);
: 976      1069 4     return false;
: 977      1070 3     end;
: 978      1071 3     RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
: 979      1072 3     status = true;
: 980      1073 2     end;
: 981      1074 2
: 982      1075 2 if cli$present (sd_pwdminimum)
: 983      1076 2 then
: 984      1077 3     begin
: 985      1078 3     cli$get_value (sd_pwdminimum, tokendsc);
: 986      1079 3     if not getval (recbuf[uaf$b_pwd_length], byte_length)
: 987      1080 3     then return false;
: 988      1081 3     status = true;
: 989      1082 2     end;
: 990      1083 2
: 991      1084 2 if cli$present (sd_quepriority)
: 992      1085 2 then
: 993      1086 3     begin
: 994      1087 3     cli$get_value (sd_quepriority, tokendsc);
: 995      1088 3     if not getval (recbuf[uaf$b_quepri], byte_length)
: 996      1089 3     then return false;
: 997      1090 3     status = true;
: 998      1091 2     end;
: 999      1092 2
: 1000     1093 2 if cli$present (sd_shrfillm)
: 1001     1094 2 then
: 1002     1095 3     begin
: 1003     1096 3     cli$get_value (sd_shrfillm, tokendsc);
: 1004     1097 3     if not getval (recbuf[uaf$w_shrfillm], word_length)
: 1005     1098 3     then return false;
: 1006     1099 3     status = true;

```

```

: 1007      1100 2      end;
: 1008      1101 2
: 1009      1102 2      if cli$present (sd_tqelm)
: 1010      1103 2      then
: 1011      1104 2          begin
: 1012      1105 2              cli$get_value (sd_tqelm, tokendsc);
: 1013      1106 2              if not getval (recbuf[uaf$w_tqcnt], word_length)
: 1014      1107 2              then return false;
: 1015      1108 2              status = true;
: 1016      1109 2              end;
: 1017      1110 2
: 1018      1111 2      if cli$present (sd_uic)
: 1019      1112 2      then
: 1020      1113 2          begin
: 1021      1114 2              cli$get_value (sd_uic, tokendsc);
: 1022      1115 2              if not getuic ()
: 1023      1116 2              then return false;
: 1024      1117 2              status = true;
: 1025      1118 2              end;
: 1026      1119 2
: 1027      1120 2      if cli$present (sd_wsdefault)
: 1028      1121 2      then
: 1029      1122 2          begin
: 1030      1123 2              cli$get_value (sd_wsdefault, tokendsc);
: 1031      1124 2              if not getval (recbuf[uaf$l_dfwsent], word_unsigned_length)
: 1032      1125 2              then return false;
: 1033      1126 2              (recbuf[uaf$l_dfwsent])<16, 16> = 0; !** temp until longword is supported
: 1034      1127 2              status = true;
: 1035      1128 2              end;
: 1036      1129 2
: 1037      1130 2      if cli$present (sd_wsextent)
: 1038      1131 2      then
: 1039      1132 2          begin
: 1040      1133 2              cli$get_value (sd_wsextent, tokendsc);
: 1041      1134 2              if not getval (recbuf[uaf$l_wsextent], word_unsigned_length)
: 1042      1135 2              then return false;
: 1043      1136 2              (recbuf[uaf$l_wsextent])<16, 16> = 0; !** temp until longword is supported
: 1044      1137 2              status = true;
: 1045      1138 2              end;
: 1046      1139 2
: 1047      1140 2      if cli$present (sd_wsquota)
: 1048      1141 2      then
: 1049      1142 2          begin
: 1050      1143 2              cli$get_value (sd_wsquota, tokendsc);
: 1051      1144 2              if not getval (recbuf[uaf$l_wsquota], word_unsigned_length)
: 1052      1145 2              then return false;
: 1053      1146 2              (recbuf[uaf$l_wsquota])<16, 16> = 0; !** temp until longword is supported
: 1054      1147 2              status = true;
: 1055      1148 2              end;
: 1056      1149 2
: 1057      1150 2      if .uaf$gl_ctlmsk[uaf$v_copy] or .uaf$gl_ctlmsk[uaf$v_add]
: 1058      1151 2      then
: 1059      1152 2          return true;
: 1060      1153 2
: 1061      1154 2      return .status;
: 1062      1155 2      end;
```

```
.TITLE UAFPARSE
.IDENT \V04-000\

.PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1

00000 ;TPASKEYSTO
      U.2: .BLKB 0
59 52 41 4D 49 52 50 00000 ;TPASKEYST
      U.4: .ASCII \PRIMARY\
      FF 00007 ;TPASKEYST
      U.11: .BLKB 0
00008 ;TPASKEYST
59 52 41 44 4E 4F 43 45 53 00008 ;TPASKEYST
      U.13: .ASCII \SECONDARY\
      FF 00011 ;TPASKEYST
      FF 00012 ;TPASKEYFILL
      U.21: .BYTE -1

.PSECT _LIB$STATES$,NOWRT, SHR, PIC,1

00000 ACCESS_STATES::
      .BLKB 0
F100 00000 ;TPASTYPE
      U.5: .WORD -3840
00000000V 00002 ;TPASACTION
      U.6: .LONG <<CHECK_PRIMARY-U.6>-4>
00000000* 00006 ;TPASADDR
      U.7: .LONG <<PRIMARY-U.7>-4>
00000001 0000A ;TPASMASK
      U.8: .LONG 1
0000* 0000E ;TPASTARGET
      U.10: .WORD <<U.9-U.10>-2>
F101 00010 ;TPASTYPE
      U.14: .WORD -3839
00000000V 00012 ;TPASACTION
      U.15: .LONG <<CHECK_SECONDARY-U.15>-4>
00000000* 00016 ;TPASADDR
      U.16: .LONG <<SECONDARY-U.16>-4>
00000001 0001A ;TPASMASK
      U.17: .LONG 1
0000* 0001E ;TPASTARGET
      U.18: .WORD <<U.9-U.18>-2>
45F3 00020 ;TPASTYPE
      U.19: .WORD 17907
00000000* 00022 ;TPASADDR
      U.20: .LONG <<RIGHT_BIT-U.20>-4>
002D 00026 ;TPASTYPE
      U.22: .WORD 45
95F7 00028 ;TPASTYPE
      U.23: .WORD -27145
00000000V 0002A ;TPASACTION
      U.24: .LONG <<SET_RANGE-U.24>-4>
FFFF 0002E ;TPASTARGET
      U.25: .WORD -1
85F3 00030 ;TPASTYPE
      U.26: .WORD -31245
```

```
00000000V 00032 :TPASACTION
               U.27: .LONG    <<SET_RANGE-U.27>-4>
00036 :TERMINAL
               U.9: .BLKB    0
15F7 00036 :TPATYPE
               U.28: .WORD    5623
FFFF 00038 :TPATARGET
               U.29: .WORD    -1
0003A :
               .BLKB    2
0003C RESTRICT_STATES:
               .BLKB    0
45F3 0003C :TPATYPE
               U.31: .WORD    17907
00000000* 0003E :TPASADDR
               U.32: .LONG    <<RIGHT_BIT-U.32>-4>
002D 00042 :TPATYPE
               U.33: .WORD    45
95F7 00044 :TPATYPE
               U.34: .WORD    -27145
00000000V 00046 :TPASACTION
               U.35: .LONG    <<SET_RANGE-U.35>-4>
FFFF 0004A :TPATARGET
               U.36: .WORD    -1
85F3 0004C :TPATYPE
               U.37: .WORD    -31245
00000000V 0004E :TPASACTION
               U.38: .LONG    <<SET_RANGE-U.38>-4>
15F7 00052 :TPATYPE
               U.39: .WORD    5623
FFFF 00054 :TPATARGET
               U.40: .WORD    -1
00056 :
               .BLKB    2
00058 UIC_STATES:
               .BLKB    0
55EC 00058 :TPATYPE
               U.42: .WORD    21996
00000000* 0005A :TPASADDR
               U.43: .LONG    <<CONVERTED_UIC-U.43>-4>
FFFF 0005E :TPATARGET
               U.44: .WORD    -1
00060 DIR_STATES:
               .BLKB    0
19F8 00060 :TPATYPE
               U.46: .WORD    6648
0000* 00062 :TPASSUBEXP
               U.48: .WORD    <<U.47-U.48>-2>
0000* 00064 :TPATARGET
               U.50: .WORD    <<U.49-U.50>-2>
19F8 00066 :TPATYPE
               U.51: .WORD    6648
0000* 00068 :TPASSUBEXP
               U.53: .WORD    <<U.52-U.53>-2>
0000* 0006A :TPATARGET
               U.54: .WORD    <<U.49-U.54>-2>
005B 0006C :TPATYPE
               U.55: .WORD    91
043C 0006E :TPATYPE
```

```
09F8 00070 U.56: .WORD 1084 ;
          :TPAS$TYPE ;
0000* 00072 U.57: .WORD 2552 ;
          :TPAS$SUBEXP ;
0DF8 00074 U.58: .WORD <<U.47-U.58>-2> ;
          :TPAS$TYPE ;
0000* 00076 U.59: .WORD 3576 ;
          :TPAS$SUBEXP ;
0C5D 00078 U.60: .WORD <<U.52-U.60>-2> ;
          :TPAS$TYPE ;
043E 0007A U.61: .WORD 93 ;
          :TPAS$TYPE ;
          U.62: .WORD 1086 ;
          :END STATE ;
          U.49: .BLKB 0 ;
15F7 0007C :TPAS$TYPE ;
          U.63: .WORD 5623 ;
FFFF 0007E :TPAS$TARGET ;
          U.64: .WORD -1 ;
          :UFD ;
          U.47: .BLKB 0 ;
85F4 00080 :TPAS$TYPE ;
          U.65: .WORD -31244 ;
00000000V 00082 :TPAS$ACTION ;
          U.66: .LONG <<CHECKVALUE-U.66>-4> ;
          :TPAS$TYPE ;
          U.67: .WORD 1068 ;
          :TPAS$TYPE ;
          U.68: .WORD -27148 ;
00000000V 0008A :TPAS$ACTION ;
          U.69: .LONG <<CHECKVALUE-U.69>-4> ;
          :TPAS$TARGET ;
          U.70: .WORD -1 ;
          :SUBDIR ;
          U.52: .BLKB 0 ;
85F1 00090 :TPAS$TYPE ;
          U.71: .WORD -31247 ;
00000000V 00092 :TPAS$ACTION ;
          U.72: .LONG <<CHECKLENGTH-U.72>-4> ;
          :TPAS$TYPE ;
          U.73: .WORD 4142 ;
          :TPAS$TARGET ;
          U.74: .WORD <<U.52-U.74>-2> ;
          :TPAS$TYPE ;
          U.75: .WORD 5622 ;
          :TPAS$TARGET ;
          U.76: .WORD -1 ;
          :
          .PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1
00000 ACCESS_KEYS::
          :TPAS$KEY0 .BLKB 0
00000 :TPAS$KEY0
          U.1: .BLKB 0
0000* 00000 :TPAS$KEY
          U.3: .WORD <U.2-U.1>
0000* 00002 :TPAS$KEY
```



```

00004 U.12: .WORD <U.11-U.1>
00004 RESTRICT_KEYS: .BLKB 0
00004 ;TPASKEY0
00004 U.30: .BLKB 0
00004 UIC_KEYS: .BLKB 0
00004 ;TPASKEY0
00004 U.41: .BLKB 0
00004 DIR_KEYS: .BLKB 0
00004 ;TPASKEY0
00004 U.45: .BLKB 0

.PSECT $SPLITS,NOWRT,NOEXE,2

31 6E 65 6B 6F 74 00000 P.AAB: .ASCII \token1\
00006 .BLKB 2
00008 P.AAA: .LONG 6
0000C 00000000, .ADDRESS P.AAB
32 6E 65 6B 6F 74 00010 P.AAD: .ASCII \token2\
00016 .BLKB 2
00018 P.AAC: .LONG 6
0001C 00000000, .ADDRESS P.AAD
74 6E 75 6F 63 63 61 00020 P.AAF: .ASCII \account\
00027 .BLKB 1
00028 P.AAE: .LONG 7
0002C 00000000, .ADDRESS P.AAF
6D 6C 74 73 61 00030 P.AAH: .ASCII \astlm\
00035 .BLKB 3
00038 P.AAG: .LONG 5
0003C 00000000, .ADDRESS P.AAH
6D 6C 6F 69 62 00040 P.AAJ: .ASCII \biolm\
00045 .BLKB 3
00048 P.AAI: .LONG 5
0004C 00000000, .ADDRESS P.AAJ
6D 6C 74 79 62 00050 P.AAL: .ASCII \bytlm\
00055 .BLKB 3
00058 P.AAK: .LONG 5
0005C 00000000, .ADDRESS P.AAL
69 6C 63 00060 P.AAN: .ASCII \cli\
00063 .BLKB 1
00064 P.AAM: .LONG 3
00068 00000000, .ADDRESS P.AAN
65 6D 69 74 75 70 63 0006C P.AAP: .ASCII \cputime\
00073 .BLKB 1
00074 P.AAO: .LONG 7
00078 00000000, .ADDRESS P.AAP
65 63 69 76 65 64 0007C P.AAR: .ASCII \device\
00082 .BLKB 2
00084 P.AAQ: .LONG 6
00088 00000000, .ADDRESS P.AAR
6D 6C 6F 69 64 0008C P.AAT: .ASCII \diolm\
00091 .BLKB 3
00094 P.AAS: .LONG 5
00098 00000000, .ADDRESS P.AAT
79 72 6F 74 63 65 72 69 64 0009C P.AAV: .ASCII \directory\

```

									000A5		.BLKB	3	
									000A8	P.AAU:	.LONG	9	
									000AC		.ADDRESS	P.AAV	
									000B0	P.AAX:	.ASCII	\enqlm\	
									000B5		.BLKB	3	
									000B8	P.AAW:	.LONG	5	
									000BC		.ADDRESS	P.AAX	
									000C0	P.AAZ:	.ASCII	\fillm\	
									000C5		.BLKB	3	
									000C8	P.AAY:	.LONG	5	
									000CC		.ADDRESS	P.AAZ	
									000D0	P.ABB:	.ASCII	\flags\	
									000D5		.BLKB	3	
									000D8	P.ABA:	.LONG	5	
									000DC		.ADDRESS	P.ABB	
									000E0	P.ABD:	.ASCII	\lgicmd\	
									000E6		.BLKB	2	
									000E8	P.ABC:	.LONG	6	
									000EC		.ADDRESS	P.ABD	
									000F0	P.ABF:	.ASCII	\maxjobs\	
									000F7		.BLKB	1	
									000F8	P.ABE:	.LONG	7	
									000FC		.ADDRESS	P.ABF	
									00100	P.ABH:	.ASCII	\owner\	
									00105		.BLKB	3	
									00108	P.ABG:	.LONG	5	
									0010C		.ADDRESS	P.ABH	
									00110	P.ABJ:	.ASCII	\password\	
									00118	P.ABI:	.LONG	8	
									0011C		.ADDRESS	P.ABJ	
									00120	P.ABL:	.ASCII	\pbytlm\	
									00126		.BLKB	2	
									00128	P.ABK:	.LONG	6	
									0012C		.ADDRESS	P.ABL	
									00130	P.ABN:	.ASCII	\pflags\	
									00136		.BLKB	2	
									00138	P.ABM:	.LONG	6	
									0013C		.ADDRESS	P.ABN	
									00140	P.ABP:	.ASCII	\pgflquota\	
									00149		.BLKB	3	
									0014C	P.ABO:	.LONG	9	
									00150		.ADDRESS	P.ABP	
									00154	P.ABR:	.ASCII	\p_restrict\	
									0015E		.BLKB	2	
									00160	P.ABQ:	.LONG	10	
									00164		.ADDRESS	P.ABR	
									00168	P.ABT:	.ASCII	\prclm\	
									0016D		.BLKB	3	
									00170	P.ABS:	.LONG	5	
									00174		.ADDRESS	P.ABT	
									00178	P.ABV:	.ASCII	\priority\	
									00180	P.ABU:	.LONG	8	
									00184		.ADDRESS	P.ABV	
									00188	P.ABX:	.ASCII	\privileges\	
									00192		.BLKB	2	
									00194	P.ABW:	.LONG	10	
									00198		.ADDRESS	P.ABX	

update_record - modify all specified fields

F 11

16-Sep-1984 02:21:19

14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1

Page 25

(3)

73	67	61	6C	66	73	0019C	P.ABZ:	.ASCII	\sflags\	:	
						001A2		.BLKB	2	:	
					00000006	001A4	P.ABY:	.LONG	6	:	
					00000000	001A8		.ADDRESS	P.ABZ	:	
74	63	69	72	74	73	65	72	5F	73	:	
						001AC	P.ACB:	.ASCII	\s_restrict\	:	
						001B6		.BLKB	2	:	
					0000000A	001B8	P.ACA:	.LONG	10	:	
					00000000	001BC		.ADDRESS	P.ACB	:	
6D	6C	6C	69	66	72	68	73			:	
						001C0	P.ACD:	.ASCII	\shrfillm\	:	
						001C8	P.ACC:	.LONG	8	:	
						001CC		.ADDRESS	P.ACD	:	
			6D	6C	65	71	74			:	
						001D0	P.ACF:	.ASCII	\tqelm\	:	
						001D5		.BLKB	3	:	
						00000005	001D8	P.ACE:	.LONG	5	:
						00000000	001DC		.ADDRESS	P.ACF	:
					63	69	75			:	
						001E0	P.ACH:	.ASCII	\uic\	:	
						001E3		.BLKB	1	:	
						00000003	001E4	P.ACG:	.LONG	3	:
						00000000	001E8		.ADDRESS	P.ACH	:
74	6C	75	61	66	65	64	73	77		:	
						001EC	P.ACJ:	.ASCII	\wsdefault\	:	
						001F5		.BLKB	3	:	
						00000009	001F8	P.ACI:	.LONG	9	:
						00000000	001FC		.ADDRESS	P.ACJ	:
74	6E	65	74	78	65	73	77			:	
						00200	P.ACL:	.ASCII	\wsextent\	:	
						00208	P.ACK:	.LONG	8	:	
						0020C		.ADDRESS	P.ACL	:	
			61	74	6F	75	71	73	77	:	
						00210	P.ACN:	.ASCII	\wsquota\	:	
						00217		.BLKB	1	:	
						00000007	00218	P.ACM:	.LONG	7	:
						00000000	0021C		.ADDRESS	P.ACN	:
			79	61	6C	70	73	69	64	:	
						00220	P.ACP:	.ASCII	\display\	:	
						00227		.BLKB	1	:	
						00000007	00228	P.ACO:	.LONG	7	:
						00000000	0022C		.ADDRESS	P.ACP	:
73	79	61	64	65	6D	69	72	70		:	
						00230	P.ACR:	.ASCII	\primedays\	:	
						00239		.BLKB	3	:	
						00000009	0023C	P.ACQ:	.LONG	9	:
						00000000	00240		.ADDRESS	P.ACR	:
73	62	6F	6A	74	63	63	61	78	61	6D	
						00244	P.ACT:	.ASCII	\maxacctjobs\	:	
						0024F		.BLKB	1	:	
						00000008	00250	P.ACS:	.LONG	11	:
						00000000	00254		.ADDRESS	P.ACT	:
68	63	61	74	65	64	78	61	6D		:	
						00258	P.ACV:	.ASCII	\maxdetach\	:	
						00261		.BLKB	3	:	
						00000009	00264	P.ACU:	.LONG	9	:
						00000000	00268		.ADDRESS	P.ACV	:
73	65	6C	62	61	74	69	6C	63		:	
						0026C	P.ACX:	.ASCII	\clitables\	:	
						00275		.BLKB	3	:	
						00000009	00278	P.ACW:	.LONG	9	:
						00000000	0027C		.ADDRESS	P.ACX	:
			61	74	6F	75	71	74	6A	:	
						00280	P.ACZ:	.ASCII	\jtquota\	:	
						00287		.BLKB	1	:	
						00000007	00288	P.ACY:	.LONG	7	:
						00000000	0028C		.ADDRESS	P.ACZ	:
			73	73	65	63	63	61		:	
						00290	P.ADB:	.ASCII	\access\	:	
						00296		.BLKB	2	:	
						00000006	00298	P.ADA:	.LONG	6	:

Offset	Hex	ASCII	Comment
00000000	0029C	.ADDRESS	P.ADB
00000001	002A0	.ASCII	\batch\
00000002	002A5	.BLKB	3
00000003	002A8	.LONG	5
00000004	002AC	.ADDRESS	P.ADD
00000005	002B0	.ASCII	\defprivileges\
00000006	002BD	.BLKB	3
00000007	002C0	.LONG	13
00000008	002C4	.ADDRESS	P.ADF
00000009	002C8	.ASCII	\dialup\
0000000A	002CE	.BLKB	2
0000000B	002D0	.LONG	6
0000000C	002D4	.ADDRESS	P.ADH
0000000D	002D8	.ASCII	\expiration\
0000000E	002E2	.BLKB	2
0000000F	002E4	.LONG	10
00000010	002E8	.ADDRESS	P.ADJ
00000011	002EC	.ASCII	\interactive\
00000012	002F7	.BLKB	1
00000013	002F8	.LONG	11
00000014	002FC	.ADDRESS	P.ADL
00000015	00300	.ASCII	\local\
00000016	00305	.BLKB	3
00000017	00308	.LONG	5
00000018	0030C	.ADDRESS	P.ADN
00000019	00310	.ASCII	\network\
0000001A	00317	.BLKB	1
0000001B	00318	.LONG	7
0000001C	0031C	.ADDRESS	P.ADP
0000001D	00320	.ASCII	\pwdlifetime\
0000001E	0032B	.BLKB	1
0000001F	0032C	.LONG	11
00000020	00330	.ADDRESS	P.ADR
00000021	00334	.ASCII	\pwdminimum\
00000022	0033E	.BLKB	2
00000023	00340	.LONG	10
00000024	00344	.ADDRESS	P.ADT
00000025	00348	.ASCII	\quepriority\
00000026	00353	.BLKB	1
00000027	00354	.LONG	11
00000028	00358	.ADDRESS	P.ADV
00000029	0035C	.ASCII	\remote\
0000002A	00362	.BLKB	2
0000002B	00364	.LONG	6
0000002C	00368	.ADDRESS	P.ADX
0000002D	0036C	.ASCII	<7>\DISCTLY\
0000002E	00374	.ASCII	<6>\DEFCLI\<0>
0000002F	0037C	.ASCII	<7>\LOCKPWD\
00000030	00384	.ASCII	<7>\CAPTIVE\
00000031	0038C	.ASCII	<7>\DISUSER\
00000032	00394	.ASCII	<10>\DISWELCOME\<0>
00000033	003A0	.ASCII	<10>\DISNEWMAIL\<0>
00000034	003AC	.ASCII	<7>\DISMAIL\
00000035	003B4	.ASCII	<6>\GENPWD\<0>
00000036	003BC	.ASCII	<11>\PWD_EXPIRED\
00000037	003C8	.ASCII	<12>\PWD2_EXPIRED\<0><0><0>
00000038	003D7		

00	00	54	52	00	00	54	49	44	55	41	05	003D8	P.AEJ:	.ASCII	<5>\AUDIT\<0><0>	:							
00	00	50	55	4C	41	49	44	53	49	44	09	003E0	P.AEK:	.ASCII	<9>\DISREPORT\<0><0>	:							
00	4B	52	4F	57	54	45	4E	53	49	44	0A	003F8	P.AEL:	.ASCII	<9>\DISDIALUP\<0><0>	:							
				00	59	41	44	4E	4F	4D	06	00404	P.AEM:	.ASCII	<10>\DISNETWORK\<0>	:							
				59	41	44	53	45	55	54	07	0040C	P.AEN:	.ASCII	<6>\MONDAY\<0>	:							
00	00	59	41	44	53	45	4E	44	45	57	09	00414	P.AEO:	.ASCII	<7>\TUESDAY\	:							
00	00	00	59	41	44	53	52	55	48	54	08	00420	P.AEP:	.ASCII	<9>\WEDNESDAY\<0><0>	:							
				00	59	41	44	49	52	46	06	0042C	P.AEQ:	.ASCII	<8>\THURSDAY\<0><0><0>	:							
00	00	00	59	41	44	52	55	54	41	53	08	00434	P.AER:	.ASCII	<6>\FRIDAY\<0>	:							
				00	59	41	44	4E	55	53	06	00440	P.AES:	.ASCII	<8>\SATURDAY\<0><0><0>	:							
45	44	43	42	41	39	38	37	36	35	34	33	32	31	30	00448	P.AET:	.ASCII	<6>\SUNDAY\<0>	:				
															0044B	P.AEU:	.ASCII	\0123456789ABCDEF\	:				
															00457				:				
															4F	4E	00458	P.AEW:	.ASCII	\NO\	:		
																	0045A		.BLKB	2	:		
																	0045C	P.AEV:	.LONG	2	:		
4F	57	53	53	41	50	5F	45	54	41	52	45	4E	45	47	00000000	00460		.ADDRESS	P.AEW		:		
										00	00	00	44	52	00000000	00464	P.AEY:	.ASCII	\GENERATE_PASSWORD\<0><0><0>		:		
															010E0011	00473					:		
															00000000	00478	P.AEX:	.LONG	17694737		:		
4F	57	53	53	41	50	5F	45	54	41	52	45	4E	45	47	00000000	0047C		.ADDRESS	P.AEY		:		
										00	00	00	44	52	00000000	00480	P.AFA:	.ASCII	\GENERATE_PASSWORD\<0><0><0>		:		
															010E0011	0048F					:		
															00000000	00494	P.AEZ:	.LONG	17694737		:		
4F	57	53	53	41	50	5F	45	54	41	52	45	4E	45	47	00000000	00498		.ADDRESS	P.AFA		:		
										00	00	00	44	52	00000000	0049C	P.AFC:	.ASCII	\GENERATE_PASSWORD\<0><0><0>		:		
															010E0011	004AB					:		
															00000000	004B0	P.AFB:	.LONG	17694737		:		
															00000000	004B4		.ADDRESS	P.AFC		:		
															010E000A	004B8	P.AFE:	.ASCII	\PWEXPIRED\<0><0>		:		
															00000000	004C4	P.AFD:	.LONG	17694730		:		
															00000000	004C8		.ADDRESS	P.AFE		:		
															45	4E	4F	4E	004CC	P.AFF:	.ASCII	\NONE\	:

.PSECT \$OWNS,NOEXE,2

0000001A	00000	FLAG_TABLE:
00000000	00004	.LONG 26
00000000	00008	.ADDRESS P.ADY
00000000	0000C	.LONG 0
00000001	00010	.ADDRESS P.ADZ
00000000	00014	.LONG 1
00000000	00018	.ADDRESS P.AEA
00000002	0001C	.LONG 2
00000000	00020	.ADDRESS P.AEB
00000003	00024	.LONG 3
00000000	00028	.ADDRESS P.AEC
00000004	0002C	.LONG 4
00000000	00030	.ADDRESS P.AED
00000005	00034	.LONG 5
00000000	00038	.ADDRESS P.AEE
00000006	0003C	.LONG 6
00000000	00040	.ADDRESS P.AEF
00000007	00044	.LONG 7
00000000	00048	.ADDRESS P.AEG
00000008	0004C	.LONG 8
00000000		.ADDRESS P.AEH

update_record - modify all specified fields

I 11
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSF.B32;1
Page 28
(3)

00000009	00050	.LONG	9	
00000000	00054	.ADDRESS	P.AEI	
0000000A	00058	.LONG	10	
00000000	0005C	.ADDRESS	P.AEJ	
0000000B	00060	.LONG	11	
00000000	00064	.ADDRESS	P.AEK	
0000000C	00068	.LONG	12	
00000004	0006C	OPFLAG_TABLE:		
		.LONG	4	
00000000	00070	.ADDRESS	P.AEL	
00000001	00074	.LONG	1	
00000000	00078	.ADDRESS	P.AEM	
00000002	0007C	.LONG	2	
0000000E	00080	PDFLAG_TABLE:		
		.LONG	14	
00000000	00084	.ADDRESS	P.AEN	
00000000	00088	.LONG	0	
00000000	0008C	.ADDRESS	P.AEO	
00000001	00090	.LONG	1	
00000000	00094	.ADDRESS	P.AEP	
00000002	00098	.LONG	2	
00000000	0009C	.ADDRESS	P.AEQ	
00000003	000A0	.LONG	3	
00000000	000A4	.ADDRESS	P.AER	
00000004	000A8	.LONG	4	
00000000	000AC	.ADDRESS	P.AES	
00000005	000B0	.LONG	5	
00000000	000B4	.ADDRESS	P.AET	
00000006	000B8	.LONG	6	
	000BC	STATUS:	.BLKB	4
	000C0	CLI_STATUS:		
		.BLKB	4	
00000002	00000008	000C4	TPARSE_BLOCK:	
		.LONG	8	2
	000CC	.BLKB	28	
	000E8	CONVERTED UIC:		
		.BLKB	4	
	000EC	ADDRESS:	.BLKB	4
	000F0	LEFT_BIT:		
		.BLKB	4	
	000F4	RIGHT_BIT:		
		.BLKB	4	
	000F8	PRIMARY_ACCESS:		
		.BLKB	4	
	000FC	SECONDARY_ACCESS:		
		.BLKB	4	
00000000	00100	NO_FLAG:	.LONG	0
00000000	00104	PRIMARY:	.LONG	0
00000000	00108	SECONDARY:		
		.LONG	0	
		SD_TOKEN1=	P.AAA	
		SD_TOKEN2=	P.AAC	
		SD_ACCOUNT=	P.AAE	
		SD_ASTLM=	P.AAG	
		SD_BIOLM=	P.AAI	
		SD_BYTLM=	P.AAK	

update_record - modify all specified fields

J 11
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 Page 29 (3)

SD_CLI=	P.AAM
SD_CPUTIME=	P.AAO
SD_DEVICE=	P.AAQ
SD_DIOLM=	P.AAS
SD_DIRECTORY=	P.AAU
SD_ENQLM=	P.AAW
SD_FILLM=	P.AAY
SD_FLAGS=	P.ABA
SD_LGICMD=	P.ABC
SD_MAXJOBS=	P.ABE
SD_OWNER=	P.ABG
SD_PASSWORD=	P.ABI
SD_PBYTLM=	P.ABK
SD_PFLAGS=	P.ABM
SD_PGFLQUOTA=	P.ABO
SD_P RESTRICT=	P.ABQ
SD_PRCLM=	P.ABS
SD_PRIORITY=	P.ABU
SD_PRIVILEGES=	P.ABW
SD_SFLAGS=	P.ABY
SD_S RESTRICT=	P.ACA
SD_SHRFILLM=	P.ACC
SD_TQELM=	P.ACE
SD_UIC=	P.ACG
SD_WSDEFAULT=	P.ACI
SD_WSEXTENT=	P.ACK
SD_WSQUOTA=	P.ACM
SD_DISPLAY=	P.ACO
SD_PRIMEDAYS=	P.ACQ
SD_MAXACCTJOBS=	P.ACS
SD_MAXDETACH=	P.ACU
SD_CLITABLES=	P.ACW
SD_JTQUOTA=	P.ACY
SD_ACCESS=	P.ADA
SD_BATCH=	P.ADC
SD_DEFPRIVILEGES=	P.ADE
SD_DIALUP=	P.ADG
SD_EXPIRATION=	P.ADI
SD_INTERACTIVE=	P.ADK
SD_LOCAL=	P.ADM
SD_NETWORK=	P.ADO
SD_PWDLIFETIME=	P.ADQ
SD_PWDMINIMUM=	P.ADS
SD_QUEPRIORITY=	P.ADU
SD_REMOTE=	P.ADW
NUMBERS=	P.AEU
NO_DSC=	P.AEV
.EXTRN	GENERATE PASSWORDS
.EXTRN	SYSS\$ASSIGN, SYSS\$DASSGN
.EXTRN	SYSS\$QIOW, LIB\$GET_VM
.EXTRN	STR\$UPCASE, LIB\$TPARSE
.EXTRN	LIB\$LOOKUP_KEY, CLISDCL_PARSE
.EXTRN	CLISPRESENT, CLISGET_VALUE
.EXTRN	FAQOUT, LGI\$HPWD
.EXTRN	LIB\$CVT_DTIME, LIB\$CVT_TIME
.EXTRN	PRV\$SETPRIV, LIB\$SIGNAC
.EXTRN	UAF\$_BADVALUE, UAF\$_EXTRAPARM

```
.EXTRN UAF$-INVDEV, UAF$-INVSTR
.EXTRN UAF$-INVUSERSPEC
.EXTRN UAF$-KEYNOTFND, UAF$-NAMETOOBIG
.EXTRN UAF$-NOARC, UAF$-NOQDOTE
.EXTRN UAF$-NOUSERSPEC
.EXTRN UAF$-PRVNOTFND, UAF$-PRVNOTUNG
.EXTRN UAF$-PWDSYNTAX, UAF$-PWDNCH
.EXTRN UAF$-PWDNOL, UAF$-UITERR
.EXTRN UAF$-VALTOOBIG, UAF$-ZCONFLICT
.EXTRN ENCRYPT, LIB$-AMBKEY
.EXTRN LIB$-UNRKEY, CLIS-ABKEYW
.EXTRN CLIS-IVKEYW, CLIS-NEGATED
.EXTRN CLIS-ABSENT, PRVS-NOTUNG
.EXTRN PRVS-INVNAM, UAF$GL-CTLMSK
.EXTRN AUTHORIZE_COMMANDS
.EXTRN CMDLINDSC, CALL COUNT
.EXTRN SYMBOL STR, MATCH TOKENLEN
.EXTRN MATCH TOKEN, TOKENDSC
.EXTRN TOKENCEN, TOKENPTR
.EXTRN UIC-FLAG, GRP-WILD
.EXTRN MEM-WILD, STR-WILD
.EXTRN TIME-BUF, PWD-FLAG
.EXTRN RECBDF
```

.PSECT \$CODE\$,NOWRT,2

		OFFC 00000		.ENTRY UPDATE_RECORD, Save R2,R3,R4,R5,R6,R7,R8,-	0588
				R9,R10,R11	
5B	00000000G	00	9E 00002	MOVAB CLISGET VALUE, R11	
5A	00000000G	00	9E 00009	MOVAB TOKENDSC, R10	
59	00000000G	00	9E 00010	MOVAB RECBUF+468, R9	
58	00000000G	00	9E 00017	MOVAB CLISPRESENT, R8	
57	00000000'	00	9E 0001E	MOVAB STATUS, R7	
56	00000000'	00	9E 00025	MOVAB SD PASSWORD, R6	
		67	D4 0002C	CLRL STATUS	0623
	48	A7	7C 0002E	CLRQ PRIMARY	0624
	44	A7	D4 00031	CLRL NO FLAG	0626
	00000000G	00	D5 00034	TSTL CALL_COUNT	0632
		13	13 0003A	BEQL 1\$	
	00000000G	00	9F 0003C	PUSHAB AUTHORIZE_COMMANDS	0634
	00000000G	00	9F 00042	PUSHAB CMDLINDSC	
00000000G	00	02	FB 00048	CALLS #2, CLISDCL_PARSE	
	0360	C6	9F 0004F	PUSHAB P.AEX	0637
68		01	FB 00053	CALLS #1, CLISPRESENT	
1D		50	E9 00056	BLBC R0, 2\$	
		56	DD 00059	PUSHL R6	0638
68		01	FB 0005B	CALLS #1, CLISPRESENT	
00000000G	8F	50	D1 0005E	CPL R0, #CLIS-ABSENT	
		0F	13 00065	BEQL 2\$	
	00000000G	8F	DD 00067	PUSHL #UAF\$ ZCONFLICT	0641
00000000G	00	01	FB 0006D	CALLS #1, LIB\$SIGNAL	
		3A	11 00074	BRB 5\$	0637
	037C	C6	9F 00076	PUSHAB P.AEZ	0644
68		01	FB 0007A	CALLS #1, CLISPRESENT	
0E		50	E8 0007D	BLBS R0, 3\$	
		56	DD 00080	PUSHL R6	0645
68		01	FB 00082	CALLS #1, CLISPRESENT	

00000000G	8F	50	D1	00085	CMPL	R0, #CLIS_ABSENT	:	
		22	13	0008C	BEQL	5\$	:	
		0398	C6	9F	0008E	3\$: PUSHAB	P.AFB	0648
	68	01	FB	00092	CALLS	#1, CLISPRESENT	:	
	07	50	E9	00095	BLBC	R0, 4\$	:	
00000000V	00	00	FB	00098	CALLS	#0, UAF\$GENERATE	:	0649
00000000V	00	00	FB	0009F	4\$: CALLS	#0, GETPASSWORD	:	0650
	63	50	E9	000A6	BLBC	R0, 10\$	:	
01	A9	02	8A	000A9	BICB2	#2, RECBUF+469	:	0652
	67	01	DO	000AD	MOVL	#1, STATUS	:	0653
	03	00000000G	00	E9	000B0	5\$: BLBC	UAF\$GL_CTLMSK, 6\$	0658
		0761	31	000B7	BRW	105\$	:	
		0180	C6	9F	000BA	6\$: PUSHAB	SD_ACCESS	0667
	68	01	FB	000BE	CALLS	#1, CLISPRESENT	:	
04	A7	50	DO	000C1	MOVL	R0, CLI_STATUS	:	
	09	50	E8	000C5	BLBS	R0, 7\$	:	0668
00000000G	8F	50	D1	000C8	CMPL	R0, #CLIS_NEGATED	:	0669
		15	12	000CF	BNEQ	8\$	:	
		50	DD	000D1	7\$: PUSHL	R0	:	0672
		1F	DD	000D3	PUSHL	#31	:	
		0180	C6	9F	000D5	PUSHAB	SD_ACCESS	
00000000V	00	03	FB	000D9	CALLS	#3, GETACCESS	:	
	55	50	E9	000E0	BLBC	R0, 13\$	:	
	67	01	DO	000E3	MOVL	#1, STATUS	:	0674
		01E0	C6	9F	000E6	8\$: PUSHAB	SD_INTERACTIVE	0677
	68	01	FB	000EA	CALLS	#1, CLISPRESENT	:	
04	A7	50	DO	000ED	MOVL	R0, CLI_STATUS	:	
	09	50	E8	000F1	BLBS	R0, 9\$	:	0678
00000000G	8F	50	D1	000F4	CMPL	R0, #CLIS_NEGATED	:	0679
		15	12	000FB	BNEQ	11\$	:	
		50	DD	000FD	9\$: PUSHL	R0	:	0682
		1C	DD	000FF	PUSHL	#28	:	
		01E0	C6	9F	00101	PUSHAB	SD_INTERACTIVE	
00000000V	00	03	FB	00105	CALLS	#3, GETACCESS	:	
	55	50	E9	0010C	10\$: BLBC	R0, 16\$	:	
	67	01	DO	0010F	MOVL	#1, STATUS	:	0684
		0190	C6	9F	00112	11\$: PUSHAB	SD_BATCH	0687
	68	01	FB	00116	CALLS	#1, CLISPRESENT	:	
04	A7	50	DO	00119	MOVL	R0, CLI_STATUS	:	
	09	50	E8	0011D	BLBS	R0, 12\$	:	0688
00000000G	8F	50	D1	00120	CMPL	R0, #CLIS_NEGATED	:	0689
		15	12	00127	BNEQ	14\$	:	
		50	DD	00129	12\$: PUSHL	R0	:	0692
		02	DD	0012B	PUSHL	#2	:	
		0190	C6	9F	0012D	PUSHAB	SD_BATCH	
00000000V	00	03	FB	00131	CALLS	#3, GETACCESS	:	
	55	50	E9	00138	13\$: BLBC	R0, 19\$	:	
	67	01	DO	0013B	MOVL	#1, STATUS	:	0694
		01B8	C6	9F	0013E	14\$: PUSHAB	SD_DIALUP	0697
	68	01	FB	00142	CALLS	#1, CLISPRESENT	:	
04	A7	50	DO	00145	MOVL	R0, CLI_STATUS	:	
	09	50	E8	00149	BLBS	R0, 15\$	:	0698
00000000G	8F	50	D1	0014C	CMPL	R0, #CLIS_NEGATED	:	0699
		15	12	00153	BNEQ	17\$	:	
		50	DD	00155	15\$: PUSHL	R0	:	0702
		08	DD	00157	PUSHL	#8	:	
		01B8	C6	9F	00159	PUSHAB	SD_DIALUP	

00000000V	00	03	FB	0015D	CALLS	#3, GETACCESS	:	:
	55	50	E9	00164	16\$:	BLBC	R0, 22\$	:
	67	01	DO	00167	MOVL	#1, STATUS	:	0704
		0200	C6	9F	0016A	17\$:	PUSHAB	SD_NETWORK
	68	01	FB	0016E	CALLS	#1, CLISPRESNT	:	0707
04	A7	50	DO	00171	MOVL	R0, CLI_STATUS	:	:
09		50	E8	00175	BLBS	R0, 18\$	:	0708
00000000G	8F	50	D1	00178	CMPL	R0, #CLIS_NEGATED	:	0709
		15	12	0017F	BNEQ	20\$	:	:
		50	DD	00181	18\$:	PUSHL	R0	0712
		01	DD	00183	PUSHL	#1	:	:
		0200	C6	9F	00185	PUSHAB	SD_NETWORK	:
00000000V	00	03	FB	00189	CALLS	#3, GETACCESS	:	:
	7D	50	E9	00190	19\$:	BLBC	R0, 26\$	:
	67	01	DO	00193	MOVL	#1, STATUS	:	0714
		01F0	C6	9F	00196	20\$:	PUSHAB	SD_LOCAL
	68	01	FB	0019A	CALLS	#1, CLISPRESNT	:	0717
04	A7	50	DO	0019D	MOVL	R0, CLI_STATUS	:	:
09		50	E8	001A1	BLBS	R0, 21\$	:	0718
00000000G	8F	50	D1	001A4	CMPL	R0, #CLIS_NEGATED	:	0719
		15	12	001AB	BNEQ	23\$	:	:
		50	DD	001AD	21\$:	PUSHL	R0	0722
		04	DD	001AF	PUSHL	#4	:	:
		01F0	C6	9F	001B1	PUSHAB	SD_LOCAL	:
00000000V	00	03	FB	001B5	CALLS	#3, GETACCESS	:	:
	76	50	E9	001BC	22\$:	BLBC	R0, 28\$	:
	67	01	DO	001BF	MOVL	#1, STATUS	:	0724
		024C	C6	9F	001C2	23\$:	PUSHAB	SD_REMOTE
	68	01	FB	001C6	CALLS	#1, CLISPRESNT	:	0727
04	A7	50	DO	001C9	MOVL	R0, CLI_STATUS	:	:
09		50	E8	001CD	BLBS	R0, 24\$	:	0728
00000000G	8F	50	D1	001D0	CMPL	R0, #CLIS_NEGATED	:	0729
		15	12	001D7	BNEQ	25\$	:	:
		50	DD	001D9	24\$:	PUSHL	R0	0732
		10	DD	001DB	PUSHL	#16	:	:
		024C	C6	9F	001DD	PUSHAB	SD_REMOTE	:
00000000V	00	03	FB	001E1	CALLS	#3, GETACCESS	:	:
	6F	50	E9	001E8	BLBC	R0, 30\$	:	:
	67	01	DO	001EB	MOVL	#1, STATUS	:	0734
		FF10	C6	9F	001EE	25\$:	PUSHAB	SD_ACCOUNT
	68	01	FB	001F2	CALLS	#1, CLISPRESNT	:	0737
	1E	50	E9	001F5	BLBC	R0, 27\$	:	:
		5A	DD	001F8	PUSHL	R10	:	0740
		FF10	C6	9F	001FA	PUSHAB	SD_ACCOUNT	:
	68	02	FB	001FE	CALLS	#2, CLISGET_VALUE	:	0742
		02	DD	00201	PUSHL	#2	:	:
		08	DD	00203	PUSHL	#8	:	:
		FE60	C9	9F	00205	PUSHAB	RECBUF+52	:
00000000V	00	03	FB	00209	CALLS	#3, GETSTRING	:	:
	6C	50	E9	00210	26\$:	BLBC	R0, 32\$	:
	67	01	DO	00213	MOVL	#1, STATUS	:	0744
		FF20	C6	9F	00216	27\$:	PUSHAB	SD_ASTLM
	68	01	FB	0021A	CALLS	#1, CLISPRESNT	:	0747
	1B	50	E9	0021D	BLBC	R0, 29\$	:	:
		5A	DD	00220	PUSHL	R10	:	0750
		FF20	C6	9F	00222	PUSHAB	SD_ASTLM	:
	6B	02	FB	00226	CALLS	#2, CLISGET_VALUE	:	:

			10	DD	00229	PUSHL	#16		0751
		40	A9	9F	0022B	PUSHAB	RECBUF+532		
00000000V	00		02	FB	0022E	CALLS	#2, GETVAL		
	6F		50	E9	00235	BLBC	R0, 34\$		
	67		01	DD	00238	MOVL	#1, STATUS		0753
		FF30	C6	9F	0023B	PUSHAB	SD-BIOLM		0756
	68		01	FB	0023F	CALLS	#1, CLIS\$PRESENT		
	1B		50	E9	00242	BLBC	R0, 31\$		
			5A	DD	00245	PUSHL	R10		0759
		FF30	C6	9F	00247	PUSHAB	SD-BIOLM		
	6B		02	FB	0024B	CALLS	#2, CLIS\$GET_VALUE		
			10	DD	0024E	PUSHL	#16		0760
		3A	A9	9F	00250	PUSHAB	RECBUF+526		
00000000V	00		02	FB	00253	CALLS	#2, GETVAL		
	4A		50	E9	0025A	BLBC	R0, 34\$		
	67		01	DD	0025D	MOVL	#1, STATUS		0762
		FF40	C6	9F	00260	PUSHAB	SD-BYTLM		0765
	68		01	FB	00264	CALLS	#1, CLIS\$PRESENT		
	1B		50	E9	00267	BLBC	R0, 33\$		
			5A	DD	0026A	PUSHL	R10		0768
		FF40	C6	9F	0026C	PUSHAB	SD-BYTLM		
	6B		02	FB	00270	CALLS	#2, CLIS\$GET_VALUE		
			20	DD	00273	PUSHL	#32		0769
		5C	A9	9F	00275	PUSHAB	RECBUF+560		
00000000V	00		02	FB	00278	CALLS	#2, GETVAL		
	67		50	E9	0027F	BLBC	R0, 37\$		
	67		01	DD	00282	MOVL	#1, STATUS		0771
		FF4C	C6	9F	00285	PUSHAB	SD-CLI		0774
	68		01	FB	00289	CALLS	#1, CLIS\$PRESENT		
	38		50	E9	0028C	BLBC	R0, 36\$		
			5A	DD	0028F	PUSHL	R10		0777
		FF4C	C6	9F	00291	PUSHAB	SD-CLI		
	6B		02	FB	00295	CALLS	#2, CLIS\$GET_VALUE		
			01	DD	00298	PUSHL	#1		0778
			20	DD	0029A	PUSHL	#32		
		FF40	C9	9F	0029C	PUSHAB	RECBUF+276		
00000000V	00		03	FB	002A0	CALLS	#3, GETSTRING		
	66		50	E9	002A7	BLBC	R0, 39\$		
			50	D4	002AA	CLRL	R0		0781
		FF60	C9	95	002AC	TSTB	RECBUF+308		
			02	13	002B0	BEQL	35\$		
			50	D6	002B2	INCL	R0		
00000000G	00		50	F0	002B4	INSV	R0, #5, #1, UAF\$GL_CTLMSK		
	05		08	88	002BD	BISB2	#8, UAF\$GL_CTLMSK		0782
	00		01	DD	002C4	MOVL	#1, STATUS		0783
	67		C6	9F	002C7	PUSHAB	SD-CLITABLES		0786
		0160	01	FB	002CB	CALLS	#1, CLIS\$PRESENT		
	68		50	E9	002CE	BLBC	R0, 38\$		
	25		5A	DD	002D1	PUSHL	R10		0789
		0160	C6	9F	002D3	PUSHAB	SD-CLITABLES		
	6B		02	FB	002D7	CALLS	#2, CLIS\$GET_VALUE		
			01	DD	002DA	PUSHL	#1		0790
			20	DD	002DC	PUSHL	#32		
		FF60	C9	9F	002DE	PUSHAB	RECBUF+308		
00000000V	00		03	FB	002E2	CALLS	#3, GETSTRING		
	62		50	E9	002E9	BLBC	R0, 42\$		
00000000G	00		10	88	002EC	BISB2	#16, UAF\$GL_CTLMSK		0792

67		01 D0 002F3	MOVL #1, STATUS	0793
	FF5C	C6 9F 002F6 38\$:	PUSHAB SD_CPUTIME	0796
68		01 FB 002FA	CALLS #1, CLIS\$PRESENT	
16		50 E9 002FD	BLBC R0, 40\$	
		5A DD 00300	PUSHL R10	0799
	FF5C	C6 9F 00302	PUSHAB SD_CPUTIME	
58		02 FB 00306	CALLS #2, CLIS\$GET_VALUE	
00000000V	00	00 FB 00309	CALLS #0, GETCPUTIM	0800
7E		50 E9 00310 39\$:	BLBC R0, 45\$	
67		01 D0 00313	MOVL #1, STATUS	0802
	01A8	C6 9F 00316 40\$:	PUSHAB SD_DEFPRIVILEGES	0805
68		01 FB 0031A	CALLS #1, CLIS\$PRESENT	
14		50 E9 0031D	BLBC R0, 41\$	
	D0	A9 9F 00320	PUSHAB RECBUF+420	0808
	01A8	C6 9F 00323	PUSHAB SD_DEFPRIVILEGES	
00000000V	00	02 FB 00327	CALLS #2, GETPRIV	
60		50 E9 0032E	BLBC R0, 45\$	
67		01 D0 00331	MOVL #1, STATUS	0810
	FF6C	C6 9F 00334 41\$:	PUSHAB SD_DEVICE	0813
68		01 FB 00338	CALLS #1, CLIS\$PRESENT	
16		50 E9 0033B	BLBC R0, 43\$	
		5A DD 0033E	PUSHL R10	0816
	FF6C	C6 9F 00340	PUSHAB SD_DEVICE	
68		02 FB 00344	CALLS #2, CLIS\$GET_VALUE	
00000000V	00	00 FB 00347	CALLS #0, GETDEVICE	0817
63		50 E9 0034E 42\$:	BLBC R0, 47\$	
67		01 D0 00351	MOVL #1, STATUS	0819
	FF7C	C6 9F 00354 43\$:	PUSHAB SD_DIOLM	0822
68		01 FB 00358	CALLS #1, CLIS\$PRESENT	
18		50 E9 0035B	BLBC R0, 44\$	
		5A DD 0035E	PUSHL R10	0825
	FF7C	C6 9F 00360	PUSHAB SD_DIOLM	
68		02 FB 00364	CALLS #2, CLIS\$GET_VALUE	
		10 DD 00367	PUSHL #16	0826
	3C	A9 9F 00369	PUSHAB RECBUF+528	
00000000V	00	02 FB 0036C	CALLS #2, GETVAL	
3E		50 E9 00373	BLBC R0, 47\$	
67		01 D0 00376	MOVL #1, STATUS	0828
	90	A6 9F 00379 44\$:	PUSHAB SD_DIRECTORY	0831
68		01 FB 0037C	CALLS #1, CLIS\$PRESENT	
15		50 E9 0037F	BLBC R0, 46\$	
		5A DD 00382	PUSHL R10	0834
	90	A6 9F 00384	PUSHAB SD_DIRECTORY	
68		02 FB 00387	CALLS #2, CLIS\$GET_VALUE	
00000000V	00	00 FB 0038A	CALLS #0, GETDIRECTORY	0835
20		50 E9 00391 45\$:	BLBC R0, 47\$	
67		01 D0 00394	MOVL #1, STATUS	0837
	A0	A6 9F 00397 46\$:	PUSHAB SD_ENQLM	0840
68		01 FB 0039A	CALLS #1, CLIS\$PRESENT	
1A		50 E9 0039D	BLBC R0, 48\$	
		5A DD 003A0	PUSHL R10	0843
	A0	A6 9F 003A2	PUSHAB SD_ENQLM	
68		02 FB 003A5	CALLS #2, CLIS\$GET_VALUE	
		10 DD 003A8	PUSHL #16	0844
	42	A9 9F 003AA	PUSHAB RECBUF+534	
00000000V	00	02 FB 003AD	CALLS #2, GETVAL	
77		50 E9 003B4 47\$:	BLBC R0, 53\$	

08	00	67	01CC	01	DO	003B7	MOVL	#1, STATUS	0846
		68		C6	9F	003BA	PUSHAB	SD_EXPIRATION	0849
	04	A7		01	FB	003BE	CALLS	#1, CLISPRESNT	
	03000000G	8F		2C	DO	003C1	MOVL	R0, CLI STATUS	
				50	D1	003C5	CMPL	R0, #CLIS_NEGATED	0850
		6E		09	12	003CC	BNEQ	49\$	
			98	00	2C	003CE	MOVCS	#0, (SP), #0, #8, RECBUF+364	0853
				A9		003D3			
		21		21	11	003D5	BRB	50\$	0854
				50	E9	003D7	BLBC	R0, 51\$	0857
				5A	DD	003DA	PUSHL	R10	0860
		6B	01CC	C6	9F	003DC	PUSHAB	SD_EXPIRATION	
			98	02	FB	003E0	CALLS	#2, CLISGET_VALUE	
				A9	9F	003E3	PUSHAB	RECBUF+364	0861
				5A	DD	003E6	PUSHL	R10	
	00000000G	00		02	FB	003E8	CALLS	#2, LIBSCVT_TIME	
		67		50	DO	003EF	MOVL	R0, STATUS	
		03		50	E8	003F2	BLBS	R0, 50\$	
			02D4	31		003F5	BRW	91\$	
		67		01	DO	003F8	MOVL	#1, STATUS	0867
			B0	A6	9F	003FB	PUSHAB	SD_FILLM	0870
		68		01	FB	003FE	CALLS	#1, CLISPRESNT	
		1A		50	E9	00401	BLBC	R0, 52\$	
				5A	DD	00404	PUSHL	R10	0873
			B0	A6	9F	00406	PUSHAB	SD_FILLM	
		6B		02	FB	00409	CALLS	#2, CLISGET_VALUE	
				10	DD	0040C	PUSHL	#16	0874
			44	A9	9F	0040E	PUSHAB	RECBUF+536	
	00000000V	00		02	FB	00411	CALLS	#2, GETVAL	
		60		50	E9	00418	BLBC	R0, 56\$	
		67		01	DO	0041B	MOVL	#1, STATUS	0876
			C0	A6	9F	0041E	PUSHAB	SD_FLAGS	0879
		68		01	FB	00421	CALLS	#1, CLISPRESNT	
		00		50	E9	00424	BLBC	R0, 54\$	
	00000000V	00		00	FB	00427	CALLS	#0, GETFLAGS	0882
		6D		50	E9	0042E	BLBC	R0, 58\$	
		67		01	DO	00431	MOVL	#1, STATUS	0884
			0170	C6	9F	00434	PUSHAB	SD_JTQUOTA	0887
		68		01	FB	00438	CALLS	#1, CLISPRESNT	
		1B		50	E9	0043B	BLBC	R0, 55\$	
				5A	DD	0043E	PUSHL	R10	0890
			0170	C6	9F	00440	PUSHAB	SD_JTQUOTA	
		6B		02	FB	00444	CALLS	#2, CLISGET_VALUE	
				20	DD	00447	PUSHL	#32	0891
			64	A9	9F	00449	PUSHAB	RECBUF+568	
	00000000V	00		02	FB	0044C	CALLS	#2, GETVAL	
		6D		50	E9	00453	BLBC	R0, 60\$	
		67		01	DO	00456	MOVL	#1, STATUS	0893
			DO	A6	9F	00459	PUSHAB	SD_LGICMD	0896
		68		01	FB	0045C	CALLS	#1, CLISPRESNT	
		1F		50	E9	0045F	BLBC	R0, 57\$	
				5A	DD	00462	PUSHL	R10	0899
			DO	A6	9F	00464	PUSHAB	SD_LGICMD	
		6B		02	FB	00467	CALLS	#2, CLISGET_VALUE	
				01	DD	0046A	PUSHL	#1	0900
		7E	40	8F	9A	0046C	MOVZBL	#64, -(SP)	
			FF00	C9	9F	00470	PUSHAB	RECBUF+212	

00000000V	00	03	FB	00474	CALLS	#3, GETSTRING	:
6A		50	E9	0047B	BLBC	R0, 62\$	:
67		01	DD	0047E	MOVL	#1, STATUS	0902
	E0	A6	9F	00481	PUSHAB	SD_MAXJOBS	0905
68		01	FB	00484	CALLS	#1, CLISPRESENT	:
1A		50	E9	00487	BLBC	R0, 59\$	:
		5A	DD	0048A	PUSHL	R10	0908
	E0	A6	9F	0048C	PUSHAB	SD_MAXJOBS	:
6B		02	FB	0048F	CALLS	#2, CLISGET_VALUE	:
		10	DD	00492	PUSHL	#16	0909
	32	A9	9F	00494	PUSHAB	RECBUF+518	:
00000000V	00	02	FB	00497	CALLS	#2, GETVAL	:
6D		50	E9	0049E	BLBC	R0, 64\$	:
67		01	DD	004A1	MOVL	#1, STATUS	0911
	0138	C6	9F	004A4	PUSHAB	SD_MAXACCTJOBS	0914
68		01	FB	004AB	CALLS	#1, CLISPRESENT	:
1B		50	E9	004AB	BLBC	R0, 61\$	:
		5A	DD	004AE	PUSHL	R10	0917
	0138	C6	9F	004B0	PUSHAB	SD_MAXACCTJOBS	:
6B		02	FB	004B4	CALLS	#2, CLISGET_VALUE	:
		10	DD	004B7	PUSHL	#16	0918
	34	A9	9F	004B9	PUSHAB	RECBUF+520	:
00000000V	00	02	FB	004BC	CALLS	#2, GETVAL	:
6B		50	E9	004C3	BLBC	R0, 66\$	:
67		01	DD	004C6	MOVL	#1, STATUS	0920
	014C	C6	9F	004C9	PUSHAB	SD_MAXDETACH	0923
68		01	FB	004CD	CALLS	#1, CLISPRESENT	:
1B		50	E9	004D0	BLBC	R0, 63\$	:
		5A	DD	004D3	PUSHL	R10	0926
	014C	C6	9F	004D5	PUSHAB	SD_MAXDETACH	:
6B		02	FB	004D9	CALLS	#2, CLISGET_VALUE	:
		10	DD	004DC	PUSHL	#16	0927
	36	A9	9F	004DE	PUSHAB	RECBUF+522	:
00000000V	00	02	FB	004E1	CALLS	#2, GETVAL	:
69		50	E9	004E8	BLBC	R0, 68\$	:
67		01	DD	004EB	MOVL	#1, STATUS	0929
	F0	A6	9F	004EE	PUSHAB	SD_OWNER	0932
68		01	FB	004F1	CALLS	#1, CLISPRESENT	:
1D		50	E9	004F4	BLBC	R0, 65\$	:
		5A	DD	004F7	PUSHL	R10	0935
	F0	A6	9F	004F9	PUSHAB	SD_OWNER	:
6B		02	FB	004FC	CALLS	#2, CLISGET_VALUE	:
		01	DD	004FF	PUSHL	#1	0936
		20	DD	00501	PUSHL	#32	:
	FE80	C9	9F	00503	PUSHAB	RECBUF+84	:
00000000V	00	03	FB	00507	CALLS	#3, GETSTRING	:
7B		50	E9	0050E	BLBC	R0, 71\$	:
67		01	DD	00511	MOVL	#1, STATUS	0938
	10	A6	9F	00514	PUSHAB	SD_PBYTLM	0941
68		01	FB	00517	CALLS	#1, CLISPRESENT	:
1A		50	E9	0051A	BLBC	R0, 67\$	:
		5A	DD	0051D	PUSHL	R10	0944
	10	A6	9F	0051F	PUSHAB	SD_PBYTLM	:
6B		02	FB	00522	CALLS	#2, CLISGET_VALUE	:
		20	DD	00525	PUSHL	#32	0945
	60	A9	9F	00527	PUSHAB	RECBUF+564	:
00000000V	00	02	FB	0052A	CALLS	#2, GETVAL	:

75	50	E9	00531	66\$:	BLBC	R0, 73\$		
67	01	DO	00534		MOVL	#1, STATUS	0947	
34	A6	9F	00537	67\$:	PUSHAB	SD_PGFLQUOTA	0950	
68	01	FB	0053A		CALLS	#1, CLISPRESENT		
1A	50	E9	0053D		BLBC	R0, 69\$		
	5A	DD	00540		PUSHL	R10	0953	
34	A6	9F	00542		PUSHAB	SD_PGFLQUOTA		
68	02	FB	00545		CALLS	#2, CLISGET_VALUE		
	18	DD	00548		PUSHL	#24	0954	
54	A9	9F	0054A		PUSHAB	RECBUF+552		
00000000V	00	02	FB	0054D	CALLS	#2, GETVAL		
6D	50	E9	00554	68\$:	BLBC	R0, 75\$		
67	01	DO	00557		MOVL	#1, STATUS	0956	
48	A6	9F	0055A	69\$:	PUSHAB	SD_P RESTRICT	0959	
68	01	FB	0055D		CALLS	#1, CLISPRESENT		
10	50	E9	00560		BLBC	R0, 70\$		
48	A6	9F	00563		PUSHAB	SD_P RESTRICT	0962	
00000000V	00	01	FB	00566	CALLS	#1, GETRESTRICT		
77	50	E9	0056D		BLBC	R0, 77\$		
67	01	DO	00570		MOVL	#1, STATUS	0964	
68	00A0	C6	9F	00573	70\$:	PUSHAB	SD_S RESTRICT	0967
15	01	FB	00577		CALLS	#1, CLISPRESENT		
4C	A7	50	E9	0057A	BLBC	R0, 72\$		
00000000V	00	01	DO	0057D	MOVL	#1, SECONDARY	0970	
6F	00A0	C6	9F	00581	PUSHAB	SD_S RESTRICT	0971	
67	01	FB	00585		CALLS	#1, GETRESTRICT		
20	50	E9	0058C	71\$:	BLBC	R0, 79\$		
68	01	DO	0058F		MOVL	#1, STATUS	0973	
14	A6	9F	00592	72\$:	PUSHAB	SD_PFLAGS	0976	
48	01	FB	00595		CALLS	#1, CLISPRESENT		
A7	50	E9	00598		BLBC	R0, 74\$		
00000000V	00	01	DO	0059B	MOVL	#1, PRIMARY	0979	
75	20	A6	9F	0059F	PUSHAB	SD_PFLAGS	0980	
67	01	FB	005A2		CALLS	#1, GETPFLAGS		
008C	50	E9	005A9	73\$:	BLBC	R0, 81\$		
68	01	DO	005AC		MOVL	#1, STATUS	0982	
11	008C	C6	9F	005AF	74\$:	PUSHAB	SD_SFLAGS	0985
	01	FB	005B3		CALLS	#1, CLISPRESENT		
00000000V	00	50	E9	005B6	BLBC	R0, 76\$		
76	008C	C6	9F	005B9	PUSHAB	SD_SFLAGS	0988	
67	01	FB	005BD		CALLS	#1, GETPFLAGS		
58	50	E9	005C4	75\$:	BLBC	R0, 83\$		
68	01	DO	005C7		MOVL	#1, STATUS	0990	
1A	A6	9F	005CA	76\$:	PUSHAB	SD_PRCLM	0993	
	01	FB	005CD		CALLS	#1, CLISPRESENT		
	50	E9	005D0		BLBC	R0, 78\$		
58	5A	DD	005D3		PUSHL	R10	0996	
68	A6	9F	005D5		PUSHAB	SD_PRCLM		
	02	FB	005D8		CALLS	#2, CLISGET_VALUE		
38	10	DD	005DB		PUSHL	#16	0997	
00000000V	00	A9	9F	005DD	PUSHAB	RECBUF+524		
53	02	FB	005E0		CALLS	#2, GETVAL		
67	50	E9	005E7	77\$:	BLBC	R0, 83\$		
68	01	DO	005EA		MOVL	#1, STATUS	0999	
0D	00124	C6	9F	005ED	78\$:	PUSHAB	SD_PRIMEDAYS	1002
	01	FB	005F1		CALLS	#1, CLISPRESENT		
	50	E9	005F4		BLBC	R0, 80\$		

00000000V	00	00	FB	005F7	CALLS	#0, GETPRIMEDAYS	1005
3C		50	E9	005FE	BLBC	R0, 83\$	
67		01	D0	00601	MOVL	#1, STATUS	1007
	68	A6	9F	00604	PUSHAB	SD_PRIORITY	1010
68		01	FB	00607	CALLS	#1, CLIS\$PRESENT	
1A		50	E9	0060A	BLBC	R0, 82\$	
		5A	DD	0060D	PUSHL	R10	1013
	68	A6	9F	0060F	PUSHAB	SD_PRIORITY	
6B		02	FB	00612	CALLS	#2, CLIS\$GET_VALUE	
		08	DD	00615	PUSHL	#8	1014
	30	A9	9F	00617	PUSHAB	RECBUF+516	
00000000V	00	02	FB	0061A	CALLS	#2, GETVAL	
19		50	E9	00621	BLBC	R0, 83\$	
67		01	D0	00624	MOVL	#1, STATUS	1016
	7C	A6	9F	00627	PUSHAB	SD_PRIVILEGES	1019
68		01	FB	0062A	CALLS	#1, CLIS\$PRESENT	
16		50	E9	0062D	BLBC	R0, 85\$	
	C8	A9	9F	00630	PUSHAB	RECBUF+412	1022
	7C	A6	9F	00633	PUSHAB	SD_PRIVILEGES	
00000000V	00	02	FB	00636	CALLS	#2, GETPRIV	
03		50	E8	0063D	BLBS	R0, 84\$	
		01E0	31	00640	BRW	107\$	
67		01	D0	00643	MOVL	#1, STATUS	1024
	03AC	C6	9F	00646	PUSHAB	P.AFD	1027
68		01	FB	0064A	CALLS	#1, CLIS\$PRESENT	
04		50	D0	0064D	MOVL	R0, CLI STATUS	
00000000G	8F	50	D1	00651	CMPL	R0, #CLIS\$_NEGATED	1028
		08	12	00658	BNEQ	86\$	
50		A9	9E	0065A	MOVAB	RECBUF+380, TIME	1031
	A8	60	7C	0065E	CLRQ	(TIME)	1032
		0E	11	00660	BRB	87\$	1033
		50	E9	00662	BLBC	R0, 88\$	1036
12		A9	9E	00665	MOVAB	RECBUF+380, TIME	1039
50	A8	01	CE	00669	MNEGL	#1, (TIME)	1040
60		01	CE	0066C	MNEGL	#1, 4(TIME)	
04		02	8A	00670	BICB2	#2, RECBUF+469	1041
01		01	D0	00674	MOVL	#1, STATUS	1042
67		C6	9F	00677	PUSHAB	SD_PWDLIFETIME	1045
	0214	01	FB	0067B	CALLS	#1, CLIS\$PRESENT	
68		50	D0	0067E	MOVL	R0, CLI STATUS	
04		50	D1	00682	CMPL	R0, #CLIS\$_NEGATED	1046
00000000G	8F	09	12	00689	BNEQ	89\$	
		00	2C	0068B	MOVCS	#0, (SP), #0, #8, RECBUF+372	1049
08	00	A9		00690			
		44	11	00692	BRB	93\$	1050
		50	E9	00694	BLBC	R0, 94\$	1054
48		5A	DD	00697	PUSHL	R10	1057
	0214	C6	9F	00699	PUSHAB	SD_PWDLIFETIME	
68		02	FB	0069D	CALLS	#2, CLIS\$GET_VALUE	
50	04	AA	D0	006A0	MOVL	TOKENESC+4, R0	1058
04	00	6A	2D	006A4	CMPC5	TOKENESC, (R0), #0, #4, P.AFF	
	03B4	C6		006A9			
		0C	12	006AC	BNEQ	90\$	
08	00	00	2C	006AE	MOVCS	#0, (SP), #0, #8, RECBUF+372	1061
		A9		006B3			
		01	D0	006B5	MOVL	#1, STATUS	1062
67		1E	11	006B8	BRB	93\$	1058

	A0	A9	9F	006BA	90\$:	PUSHAB	RECBUF+372	1065	
00000000G	00	5A	DD	006BD		PUSHL	R10		
	67	02	FB	006BF		CALLS	#2, LIB\$CVT_DTIME		
	0C	50	DD	006C6		MOVL	R0, STATUS		
		50	E8	006C9		BLBC	R0, 93\$		
00000000G	00	67	DD	006CC	91\$:	PUSHL	STATUS	1068	
		01	FB	006CE		CALLS	#1, LIB\$SIGNAL		
		014B	31	006D5	92\$:	BRW	107\$	1069	
01	A9	02	8A	006D8	93\$:	BICB2	#2, RECBUF+469	1071	
	67	01	DD	006DC		MOVL	#1, STATUS	1072	
		0228	C6	9F	006DF	94\$:	PUSHAB	SD_PWDMINIMUM	1075
	68	01	FB	006E3		CALLS	#1, CLIS\$PRESENT		
	1B	50	E9	006E6		BLBC	R0, 95\$		
		5A	DD	006E9		PUSHL	R10	1078	
		0228	C6	9F	006EB	PUSHAB	SD_PWDMINIMUM		
	6B	02	FB	006EF		CALLS	#2, CLIS\$GET_VALUE	1079	
		08	DD	006F2		PUSHL	#8		
00000000V	00	96	A9	9F	006F4	PUSHAB	RECBUF+362		
	D4	02	FB	006F7		CALLS	#2, GETVAL		
	67	50	E9	006FE		BLBC	R0, 92\$		
		01	DD	00701		MOVL	#1, STATUS	1081	
	68	023C	C6	9F	00704	95\$:	PUSHAB	SD_QUEPRIORITY	1084
	1B	01	FB	00708		CALLS	#1, CLIS\$PRESENT		
		50	E9	0070B		BLBC	R0, 96\$		
		5A	DD	0070E		PUSHL	R10	1087	
		023C	C6	9F	00710	PUSHAB	SD_QUEPRIORITY		
	6B	02	FB	00714		CALLS	#2, CLIS\$GET_VALUE	1088	
		08	DD	00717		PUSHL	#8		
00000000V	00	31	A9	9F	00719	PUSHAB	RECBUF+517		
	AF	02	FB	0071C		CALLS	#2, GETVAL		
	67	50	E9	00723		BLBC	R0, 92\$		
		01	DD	00726		MOVL	#1, STATUS	1090	
	68	00B0	C6	9F	00729	96\$:	PUSHAB	SD_SHRFILLM	1093
	1B	01	FB	0072D		CALLS	#1, CLIS\$PRESENT		
		50	E9	00730		BLBC	R0, 97\$		
		5A	DD	00733		PUSHL	R10	1096	
		00B0	C6	9F	00735	PUSHAB	SD_SHRFILLM		
	6B	02	FB	00739		CALLS	#2, CLIS\$GET_VALUE	1097	
		10	DD	0073C		PUSHL	#16		
00000000V	00	46	A9	9F	0073E	PUSHAB	RECBUF+538		
	8A	02	FB	00741		CALLS	#2, GETVAL		
	67	50	E9	00748		BLBC	R0, 92\$		
		01	DD	0074B		MOVL	#1, STATUS	1099	
	68	00C0	C6	9F	0074E	97\$:	PUSHAB	SD_TQELM	1102
	1B	01	FB	00752		CALLS	#1, CLIS\$PRESENT		
		50	E9	00755		BLBC	R0, 98\$		
		5A	DD	00758		PUSHL	R10	1105	
		00C0	C6	9F	0075A	PUSHAB	SD_TQELM		
	6B	02	FB	0075E		CALLS	#2, CLIS\$GET_VALUE	1106	
		10	DD	00761		PUSHL	#16		
00000000V	00	3E	A9	9F	00763	PUSHAB	RECBUF+530		
	6A	02	FB	00766		CALLS	#2, GETVAL		
	67	50	E9	0076D		BLBC	R0, 101\$		
		01	DD	00770		MOVL	#1, STATUS	1108	
	68	00CC	C6	9F	00773	98\$:	PUSHAB	SD_UIC	1111
	16	01	FB	00777		CALLS	#1, CLIS\$PRESENT		
		50	E9	0077A		BLBC	R0, 99\$		

		00CC	5A DD 0077D	PUSHL R10		1114
			C6 9F 0077F	PUSHAB SD_UIC		
00000000V	6B		02 FB 00783	CALLS #2, CLISGET_VALUE		
	00		00 FB 00786	CALLS #0, GETUIC		1115
	72		50 E9 0078D	BLBC R0, 103\$		
	67		01 D0 00790	MOVL #1, STATUS		1117
		00E0	C6 9F 00793 99\$:	PUSHAB SD_WSDEFAULT		1120
	68		01 FB 00797	CALLS #1, CLISPRESENT		
	1E		50 E9 0079A	BLBC R0, 100\$		
			5A DD 0079D	PUSHL R10		1123
		00E0	C6 9F 0079F	PUSHAB SD_WSDEFAULT		
	6B		02 FB 007A3	CALLS #2, CLISGET_VALUE		
			11 DD 007A6	PUSHL #17		1124
00000000V	00	4C	A9 9F 007A8	PUSHAB RECBUF+544		
	6E		02 FB 007AB	CALLS #2, GETVAL		
			50 E9 007B2	BLBC R0, 107\$		
		4E	A9 B4 007B5	CLRW RECBUF+546		1126
	67		01 D0 007B8	MOVL #1, STATUS		1127
		00F0	C6 9F 007BB 100\$:	PUSHAB SD_WSEXTENT		1130
	68		01 FB 007BF	CALLS #1, CLISPRESENT		
	1E		50 E9 007C2	BLBC R0, 102\$		
			5A DD 007C5	PUSHL R10		1133
		00F0	C6 9F 007C7	PUSHAB SD_WSEXTENT		
	6B		02 FB 007CB	CALLS #2, CLISGET_VALUE		
			11 DD 007CE	PUSHL #17		1134
		50	A9 9F 007D0	PUSHAB RECBUF+548		
00000000V	00		02 FB 007D3	CALLS #2, GETVAL		
	46		50 E9 007DA 101\$:	BLBC R0, 107\$		
		52	A9 B4 007DD	CLRW RECBUF+550		1136
	67		01 D0 007E0	MOVL #1, STATUS		1137
		0100	C6 9F 007E3 102\$:	PUSHAB SD_WSQUOTA		1140
	68		01 FB 007E7	CALLS #1, CLISPRESENT		
	1E		50 E9 007EA	BLBC R0, 104\$		
			5A DD 007ED	PUSHL R10		1143
		0100	C6 9F 007EF	PUSHAB SD_WSQUOTA		
	6B		02 FB 007F3	CALLS #2, CLISGET_VALUE		
			11 DD 007F6	PUSHL #17		1144
		48	A9 9F 007F8	PUSHAB RECBUF+540		
00000000V	00		02 FB 007FB	CALLS #2, GETVAL		
	1E		50 E9 00802 103\$:	BLBC R0, 107\$		
		4A	A9 B4 00805	CLRW RECBUF+542		1146
	67		01 D0 00808	MOVL #1, STATUS		1147
08 00000000G	00		02 E0 0080B 104\$:	BBS #2, UAF\$GL_CTLMSK, 105\$		1150
04 00000000G	00		01 E1 00813	BBC #1, UAF\$GL_CTLMSK, 106\$		
	50		01 D0 0081B 105\$:	MOVL #1, R0		1152
			04 0081E	RET		
	50		67 D0 0081F 106\$:	MOVL STATUS, R0		1154
			04 00822	RET		
		50	D4 00823 107\$:	CLRL R0		1155
			04 00825	RET		

; Routine Size: 2086 bytes, Routine Base: \$CODE\$ + 0000

```
1064 1156 1 %sbtcl 'getaccess - get hourly and daily access control flags'
1065 1157 1 routine getaccess (qual_name, access_type, qual_status) =
1066 1158 2 begin
1067 1159 2
1068 1160 2 ++
1069 1161 2
1070 1162 2 FUNCTIONAL DESCRIPTION:
1071 1163 2
1072 1164 2 Parse the value list for hourly login restrictions on the
1073 1165 2 selected access modes.
1074 1166 2
1075 1167 2 INPUTS:
1076 1168 2
1077 1169 2 qual_name - descriptor of qualifier name to use
1078 1170 2 access_type - bitvector representing the access modes to be affected
1079 1171 2 qual_status - status from cli$present for qualifier
1080 1172 2
1081 1173 2 IMPLICIT INPUTS:
1082 1174 2
1083 1175 2 none
1084 1176 2
1085 1177 2 OUTPUTS:
1086 1178 2
1087 1179 2 none
1088 1180 2
1089 1181 2 IMPLICIT OUTPUTS:
1090 1182 2
1091 1183 2 none
1092 1184 2
1093 1185 2 ROUTINE VALUE:
1094 1186 2
1095 1187 2 true -> all keywords and parameters were specified correctly
1096 1188 2
1097 1189 2 SIDE EFFECTS:
1098 1190 2
1099 1191 2 none
1100 1192 2 --
1101 1193 2
1102 1194 2 map
1103 1195 2 access_type : bitvector;
1104 1196 2
1105 1197 2 STRUCTURE
1106 1198 2 threebytevector [i; n, ext=0] =
1107 1199 2 [n*3]
1108 1200 2 (threebytevector+i*3)<0, 24, ext>;
1109 1201 2
1110 1202 2 $ASSUME ($BYTEOFFSET (uaf$b_network_access_s), EQL, $BYTEOFFSET (uaf$b_network_access_p)+3);
1111 1203 2 $ASSUME ($BYTEOFFSET (uaf$b_batch_access_p), EQL, $BYTEOFFSET (uaf$b_network_access_s)+3);
1112 1204 2 $ASSUME ($BYTEOFFSET (uaf$b_batch_access_s), EQL, $BYTEOFFSET (uaf$b_batch_access_p)+3);
1113 1205 2 $ASSUME ($BYTEOFFSET (uaf$b_local_access_p), EQL, $BYTEOFFSET (uaf$b_batch_access_s)+3);
1114 1206 2 $ASSUME ($BYTEOFFSET (uaf$b_local_access_s), EQL, $BYTEOFFSET (uaf$b_local_access_p)+3);
1115 1207 2 $ASSUME ($BYTEOFFSET (uaf$b_dialup_access_p), EQL, $BYTEOFFSET (uaf$b_local_access_s)+3);
1116 1208 2 $ASSUME ($BYTEOFFSET (uaf$b_dialup_access_s), EQL, $BYTEOFFSET (uaf$b_dialup_access_p)+3);
1117 1209 2 $ASSUME ($BYTEOFFSET (uaf$b_remote_access_p), EQL, $BYTEOFFSET (uaf$b_dialup_access_s)+3);
1118 1210 2 $ASSUME ($BYTEOFFSET (uaf$b_remote_access_s), EQL, $BYTEOFFSET (uaf$b_remote_access_p)+3);
1119 1211 2
1120 1212 2 bind
```

```
1121 1213 2      access_vector  = recbuf[uaf$b_network_access_p]
1122 1214 2      : threebytevector;
1123 1215 2
1124 1216 2
1125 1217 2      Initialize output values.
1126 1218 2
1127 1219 2      primary_access = -1;
1128 1220 2      secondary_access = -1;
1129 1221 2      if not .qual_status then no_flag = true;
1130 1222 2
1131 1223 2
1132 1224 2      Fetch value list items and parse them.
1133 1225 2
1134 1226 2      while true
1135 1227 2      do
1136 1228 2          begin
1137 1229 2              if not cli$get_value (.qual_name, tokendsc)
1138 1230 2              then exitloop;
1139 1231 2
1140 1232 2              tparse_block[tpa$l_stringcnt] = .tokenlen;
1141 1233 2              tparse_block[tpa$l_stringptr] = .tokenptr;
1142 1234 2              if not lib$tparse (tparse_block, access_states, access_keys)
1143 1235 2              then return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
1144 1236 2          end;
1145 1237 2
1146 1238 2
1147 1239 2      Default omitted values.
1148 1240 2
1149 1241 2      if not .primary and not .secondary
1150 1242 2      then secondary_access = .primary_access;
1151 1243 2      if .primary and not .secondary
1152 1244 2      then secondary_access = 0;
1153 1245 2      if .secondary and not .primary and .primary_access eql -1
1154 1246 2      then primary_access = 0;
1155 1247 2
1156 1248 2      if not .no_flag
1157 1249 2      then
1158 1250 2          begin
1159 1251 2              primary_access = not .primary_access;
1160 1252 2              secondary_access = not .secondary_access;
1161 1253 2          end;
1162 1254 2
1163 1255 2
1164 1256 2      Write the specified fields in the UAF record.
1165 1257 2
1166 1258 2      incr j from 0 to 4
1167 1259 2      do
1168 1260 2          begin
1169 1261 2              if .access_type[.j]
1170 1262 2              then
1171 1263 2                  begin
1172 1264 2                      access_vector [.j*2+0] = .primary_access;
1173 1265 2                      access_vector [.j*2+1] = .secondary_access;
1174 1266 2                  end;
1175 1267 2              end;
1176 1268 2
1177 1269 2      true
```

00000000G0041

00000000G0041

21

52

51

18

51

18

D6

04

04

08

50

50

50

50

50

50

50

50

50

50

50

50

50

50

50

003C 00000 GETACCESS:

55 00000000G 00 9E 00002
54 00000000G 00 9E 00009
53 00000000' 00 9E 00010
63 01 CE 00017
04 A3 01 CE 0001A
04 0C AC E8 0001E
08 A3 01 D0 00022
00000000G 00 9F 00026 1\$:
04 AC DD 0002C
00000000G 00 02 FB 0002F
36 50 E9 00036
D4 A3 64 3C 00039
D8 A3 65 D0 0003D
00000000' 00 9F 00041
00000000' 00 9F 00047
CC A3 9F 0004D
00000000G 00 03 FB 00050
CC 50 E8 00057
7E 65 DD 0005A
64 3C 0005C
02 DD 0005F
00000000G 8F DD 00061
00 04 FB 00067
04 04 0006E
50 0C A3 D0 0006F 2\$:
08 50 E8 00073
04 10 A3 E8 00076
04 A3 63 D0 0007A
07 50 E9 0007E 3\$:
07 10 A3 E8 00081 4\$:
04 10 A3 D4 00085
0E 10 A3 E9 00088 5\$:
08 50 E8 0008C 6\$:
FFFFFFF 8F 63 D1 0008F
02 12 00096
63 D4 00098
08 08 A3 E8 0009A 7\$:
63 63 D2 0009E
04 A3 04 A3 D2 000A1
50 D4 000A6 8\$:
08 50 E1 000A8 9\$:
52 01 78 000AD
51 52 03 C5 000B1
18 00 63 F0 000B5
51 52 03 C5 000BF
18 00 04 A3 F0 000C3
04 F3 000CE 10\$:
01 D0 000D2

.WORD Save R2,R3,R4,R5
MOVAB TOKENPTR, R5
MOVAB TOKENLEN, R4
MOVAB PRIMARY_ACCESS, R3
MNEGL #1, PRIMARY_ACCESS
MNEGL #1, SECONDARY_ACCESS
BLBS QUAL_STATUS, T\$
MOVL #1, NO_FLAG
PUSHAB TOKENDESC
PUSHL QUAL_NAME
CALLS #2, CLISGET_VALUE
BLBC R0, 2\$
MOVZWL TOKENLEN, TPARSE_BLOCK+8
MOVL TOKENPTR, TPARSE_BLOCK+12
PUSHAB ACCESS_KEYS
PUSHAB ACCESS_STATES
PUSHAB TPARSE_BLOCK
CALLS #3, LIB\$TPARSE
BLBS R0, 1\$
PUSHL TOKENPTR
MOVZWL TOKENLEN, -(SP)
PUSHL #2
PUSHL #UAF\$BADVALUE
CALLS #4, LIB\$SIGNAL
RET
MOVL PRIMARY, R0
BLBS R0, 4\$
BLBS SECONDARY, 3\$
MOVL PRIMARY_ACCESS, SECONDARY_ACCESS
BLBC R0, 5\$
BLBS SECONDARY, 6\$
CLRL SECONDARY_ACCESS
BLBC SECONDARY, 7\$
BLBS R0, 7\$
CMPL PRIMARY_ACCESS, #-1
BNEQ 7\$
CLRL PRIMARY_ACCESS
BLBS NO_FLAG, 8\$
MCOML PRIMARY_ACCESS, PRIMARY_ACCESS
MCOML SECONDARY_ACCESS, SECONDARY_ACCESS
CLRL J
BBC J, ACCESS_TYPE, 10\$
ASHL #1, J, R2
MULL3 #3, R2, R1
INSV PRIMARY_ACCESS, #0, #24, ACCESS_VECTOR[R1]
MULL3 #3, R2, R1
INSV SECONDARY_ACCESS, #0, #24, ACCESS_VECTOR+3-[R1]
AOBLEQ #4, J, 9\$
MOVL #1, R0

1157
1219
1220
1221
1229
1232
1233
1234
1235
1241
1242
1243
1244
1245
1246
1248
1251
1252
1258
1261
1264
1265
1258
1270

UAFPARSE
V04-000

getaccess - get hourly and daily access control

04 000D5

RET

; Routine Size: 214 bytes, Routine Base: \$CODE\$ + 0826

L 12
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (4)

Page 44

UAFPARSE
V04-000

M 12

16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742

Page 45
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (5)

```

: 1180      1271 1 %sbttl 'check_primary - check presence of PRIMARY keyword'
: 1181      1272 1 routine check_primary =
: 1182      1273 2 begin
: 1183      1274 2 not .primary and not .secondary
: 1184      1275 1 end;
```

0000 00000 CHECK_PRIMARY:

```

          50 00000000' 00 00000000' 00 C9 00002      .WORD      Save nothing      : 1272
          50          50 D2 0000E      BISL3      SECONDARY, PRIMARY, R0      : 1274
          04 00011      MCOML      R0, R0      : 1273
          RET      : 1275
```

: Routine Size: 18 bytes, Routine Base: \$CODE\$ + 08FC

UAFPARSE
V04-000

N 12

16-Sep-1984 02:21:19

VAX-11 Bliss-32 V4.0-742

Page 46

check_secondary - check presence of SECONDARY k

14-Sep- 984 13:21:23

DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1

(6)

: 1186

: 1187

: 1188

: 1189

: 1190

1276 1 %sbttl 'check_secondary - check presence of SECONDARY keyword'

1277 1 routine check_secondary =

1278 2 begin

1279 2 not .secondary

1280 1 end;

0000 00000 CHECK_SECONDARY:

50 00000000' 00 D2 00002

04 00009

.WORD Save nothing

MCOML SECONDARY, R0

RET

: 1277

: 1278

: 1280

; Routine Size: 10 bytes, Routine Base: \$CODE\$ + 090E

set_range - set hourly restriction bits

```
1192 1281 1 %sbttl 'set_range - set hourly restriction bits'
1193 1282 1 global routine set_range =
1194 1283 2 begin
1195 1284 2
1196 1285 2 ++
1197 1286 2
1198 1287 2 FUNCTIONAL DESCRIPTION:
1199 1288 2
1200 1289 2 Set or clear appropriate hourly login restriction bits
1201 1290 2
1202 1291 2 INPUTS:
1203 1292 2
1204 1293 2 none
1205 1294 2
1206 1295 2 IMPLICIT INPUTS.
1207 1296 2
1208 1297 2
1209 1298 2 OUTPUTS:
1210 1299 2
1211 1300 2 none
1212 1301 2
1213 1302 2 ROUTINE VALUE:
1214 1303 2
1215 1304 2 true -> successful completion
1216 1305 2 false -> error in flag name
1217 1306 2 --
1218 1307 2
1219 1308 2 builtin
1220 1309 2 ap;
1221 1310 2
1222 1311 2 map
1223 1312 2 ap : ref block [,byte];
1224 1313 2
1225 1314 2 local
1226 1315 2 address,
1227 1316 2 width,
1228 1317 2 leftmost,
1229 1318 2 wrap;
1230 1319 2
1231 1320 2
1232 1321 2 Point to the flags longword to use.
1233 1322 2
1234 1323 2 if .secondary
1235 1324 2 then address = secondary_access
1236 1325 2 else address = primary_access;
1237 1326 2
1238 1327 2
1239 1328 2 Get the ending bit - note that this is the same as the starting
1240 1329 2 bit for a single hour.
1241 1330 2
1242 1331 2 left_bit = .ap[tpa$l_number];
1243 1332 2
1244 1333 2
1245 1334 2 Make sure hour is not out of range
1246 1335 2
1247 1336 2 if .left_bit gtru 23
1248 1337 2 or .right_bit gtru 23
```

set_range - set hourly restriction bits

```
1249 1338 2 then
1250 1339 2     return false;
1251 1340 2
1252 1341 2
1253 1342 2     Clear out the default field value if this is the first real value.
1254 1343 2
1255 1344 2 if ..address eql -1
1256 1345 2 then .address = 0;
1257 1346 2
1258 1347 2 wrap = false;
1259 1348 2 leftmost = .left_bit;
1260 1349 2
1261 1350 2
1262 1351 2     If the starting bit is greater than the ending bit, allow field to wrap
1263 1352 2
1264 1353 2 if .left_bit lss .right_bit
1265 1354 2 then
1266 1355 3     begin
1267 1356 3         leftmost = 23;
1268 1357 3         wrap = true;
1269 1358 3     end;
1270 1359 2
1271 1360 2
1272 1361 2     Set field width(s) and set appropriate bits
1273 1362 2
1274 1363 2 width = .leftmost - .right_bit + 1;
1275 1364 2
1276 1365 2 (.address)<.right_bit, .width> = -1;
1277 1366 2
1278 1367 2 if .wrap
1279 1368 2 then (.address)<0, .left_bit+1> = -1;
1280 1369 2
1281 1370 2 return true;
1282 1371 2
1283 1372 1 end;
```

		003C 00000	.ENTRY SET_RANGE, Save R2,R3,R4,R5	: 1282
55	00000000'	00 9E 00002	MOVAB LEFT_BIT, R5	: 1282
06	18	A5 E9 00009	BLBC SECONDARY, 1\$	: 1323
53	0C	A5 9E 0000D	MOVAB SECONDARY_ACCESS, ADDRESS	: 1324
		04 11 00011	BRB 2\$	: 1324
53	08	A5 9E 00013	MOVAB PRIMARY_ACCESS, ADDRESS	: 1325
65	1C	AC D0 00017	MOVL 28(AP), LEFT_BIT	: 1331
54		65 D0 0001B	MOVL LEFT_BIT, R4	: 1336
17		54 D1 0001E	CMPL R4, #23	: 1336
		47 1A 00021	BGTRU 6\$	: 1336
17	04	A5 D1 00023	CMPL RIGHT_BIT, #23	: 1337
		41 1A 00027	BGTRU 6\$	: 1337
FFFFFFFF	8F	63 D1 00029	CMPL (ADDRESS), #-1	: 1344
		02 12 00030	BNEQ 3\$	: 1344
		63 D4 00032	CLRL (ADDRESS)	: 1345
		52 D4 00034	CLRL WRAP	: 1347
50		54 D0 00036	MOVL R4, LEFTMOST	: 1348

UAFPARSE
V04-000

set_range - set hourly restriction bits

D 13
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1
Page 49
(7)

		51	04	A5	D0	00039	MOVL	RIGHT BIT, R1	:	1353
		51		54	D1	0003D	CMPL	R4, RT	:	
				06	18	00040	BGEQ	4\$	:	
		50		17	D0	00042	MOVL	#23, LEFTMOST	:	1356
		52		01	D0	00045	MOVL	#1, WRAP	:	1357
		50		51	C2	00048	4\$:	SUBL2	R1, R0	1363
				50	D6	0004B	INCL	WIDTH	:	
63	50	51	FFFFFFF	8F	F0	0004D	INSV	#-1, R1, WIDTH, (ADDRESS)	:	1365
		0D		52	E9	00056	BLBC	WRAP, 5\$	:	1367
		50	01	A4	9E	00059	MOVAB	1(R4), R0	:	1368
63	50	00	FFFFFFF	8F	F0	0005D	INSV	#-1, #0, R0, (ADDRESS)	:	
		50		01	D0	00066	5\$:	MOVL	#1, R0	1370
					04	00069	RET		:	
				50	D4	0006A	6\$:	CLRL	R0	1372
					04	0006C	RET		:	

; Routine Size: 109 bytes, Routine Base: \$CODE\$ + 0918

getcputim - get cpu time quota

```
1285 1373 1 %sbttl 'getcputim - get cpu time quota'
1286 1374 1 global routine getcputim =
1287 1375 2 begin
1288 1376 2
1289 1377 2 ++
1290 1378 2
1291 1379 2 FUNCTIONAL DESCRIPTION:
1292 1380 2
1293 1381 2 Fill in the CPU time limit in the proper field in RECBUF.
1294 1382 2
1295 1383 2 INPUTS:
1296 1384 2
1297 1385 2 none
1298 1386 2
1299 1387 2 OUTPUTS:
1300 1388 2
1301 1389 2 none
1302 1390 2
1303 1391 2 ROUTINE VALUE:
1304 1392 2
1305 1393 2 true -> success
1306 1394 2 false -> invalid value supplied
1307 1395 2
1308 1396 2 --
1309 1397 2
1310 1398 2 local
1311 1399 2 delta_time : vector [2, long], ! system delta time temporary
1312 1400 2 cpu_time, ! CPU time work variables
1313 1401 2 remainder;
1314 1402 2
1315 1403 2 builtin
1316 1404 2 ediv;
1317 1405 2
1318 1406 2
1319 1407 2 Convert ASCII to system delta time
1320 1408 2
1321 1409 2
1322 1410 2 if not lib$cvtdtime (tokendsc, delta_time)
1323 1411 2 then
1324 1412 2 return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
1325 1413 2
1326 1414 2
1327 1415 2 Convert system delta time to a longword value which is in .01 sec. units
1328 1416 2
1329 1417 2
1330 1418 2 if (ediv (%ref (-200000), delta_time, cpu_time, remainder) and psl$m_v) neq 0
1331 1419 2 then
1332 1420 2 return LIB$SIGNAL(UAF$_VALTOOBIG, 2, .tokenlen, .tokenptr);
1333 1421 2
1334 1422 2 recbuf[uaf$l_cputim] = (.cpu_time ^ 1) + (if .remainder eql 0 then 0 else 1);
1335 1423 2
1336 1424 2 true
1337 1425 1 end;
```

53	52	6E	FFFCF2C0	8F	7B	00034	1\$:	EDIV	#-200000, DELTA_TIME, CPU_TIME, REMAINDER	1418
	15	50		01	E1	0003F		BBC	#1, R0, 3\$	
		7E		64	DD	00043		PUSHL	TOKENPTR	1420
				65	3C	00045		MOVZWL	TOKENLEN, -(SP)	
				02	DD	00048		PUSHL	#2	
		00000000G	00	8F	DD	0004A		PUSHL	#UAF\$ VALTOOBIG	
				04	FB	00050	2\$:	CALLS	#4, LIB\$SIGNAL	
					04	00057		RET		
				53	D5	00058	3\$:	TSTL	REMAINDER	1422
				04	12	0005A		BNEQ	4\$	
				50	D4	0005C		CLRL	R0	
				03	11	0005E		BRB	5\$	
		00000000G	50	01	D0	00060	4\$:	MOVL	#1, R0	
			00	6042	3E	00063	5\$:	MOVAV	(R0)[CPU_TIME], RECBUF+556	
			50	01	D0	0006B		MOVL	#1, R0	1425
				04	0006E			RET		

.ENTRY GETCPUTIM, Save R2,R3,R4,R5 : 1374
MOVAB TOKENLEN, R5
MOVAB TOKENPTR, R4
SUBL2 #8, SP
PUSHL SP : 1410
PUSHAB TOKENDSC
CALLS #2, LIB\$CVT_DTIME
BLBS R0, 1\$
PUSHL TOKENPTR : 1412
MOVZWL TOKENLEN, -(SP)
PUSHL #2
PUSHL #UAF\$_BADVALUE
BRB 2\$
EDIV #-200000, DELTA_TIME, CPU_TIME, REMAINDER : 1418
MOVPSL R0
BBC #1, R0, 3\$
PUSHL TOKENPTR : 1420
MOVZWL TOKENLEN, -(SP)
PUSHL #2
PUSHL #UAF\$ VALTOOBIG
CALLS #4, LIB\$SIGNAL
RET
TSTL REMAINDER : 1422
BNEQ 4\$
CLRL R0
BRB 5\$
MOVL #1, R0
MOVAV (R0)[CPU_TIME], RECBUF+556
MOVL #1, R0 : 1425
RET

; Routine Size: 111 bytes, Routine Base: \$CODE\$ + 0985

```
1339 1426 1 %sbttl 'getdevice - get default device name'
1340 1427 1 global routine getdevice =
1341 1428 2 begin
1342 1429 2
1343 1430 2 ++
1344 1431 2
1345 1432 2 FUNCTIONAL DESCRIPTION:
1346 1433 2
1347 1434 2 Fill in the default device name in RECBUF.
1348 1435 2 Will also append an ending colon if omitted.
1349 1436 2
1350 1437 2 INPUTS:
1351 1438 2
1352 1439 2 none
1353 1440 2
1354 1441 2 OUTPUTS:
1355 1442 2
1356 1443 2 none
1357 1444 2
1358 1445 2 ROUTINE VALUE:
1359 1446 2
1360 1447 2 true -> update successful
1361 1448 2 false -> error in specification
1362 1449 2 --
1363 1450 2
1364 1451 2 local
1365 1452 2 strlen;
1366 1453 2
1367 1454 2 if not getstring (recbuf[uaf$t_defdev], uaf$s_defdev, counted_string)
1368 1455 2 then
1369 1456 2 return false;
1370 1457 2
1371 1458 2
1372 1459 2 Check to see that string has ending ':'
1373 1460 2 and add one if not.
1374 1461 2 If string length is zero, then field has been removed so
1375 1462 2 there's no need for the check.
1376 1463 2
1377 1464 2
1378 1465 2 strlen = .(recbuf[uaf$t_defdev])<0,8>; ! get string length
1379 1466 2
1380 1467 2 if .strlen eql 0
1381 1468 2 then
1382 1469 2 return true;
1383 1470 2
1384 1471 2 if .(recbuf[uaf$t_defdev] + .strlen)<0,8> neq colon
1385 1472 2 then
1386 1473 2 begin
1387 1474 2 if .strlen geq uaf$s_defdev-1
1388 1475 2 then
1389 1476 2 return LIB$SIGNAL(UAF$ INVDEV, 2, .tokenlen, .tokenptr);
1390 1477 2 (recbuf[uaf$t_defdev]+.strlen+1)<0,8> = colon;
1391 1478 2 (recbuf[uaf$t_defdev])<0,8> = .strlen + 1;
1392 1479 2 end;
1393 1480 2 return true;
1394 1481 1 end;
```

			000C 00000	.ENTRY	GETDEVICE, Save R2,R3	: 1427
	53	00000000G	00 9E 00002	MOVAB	RECBUF+116, R3	: 1454
			01 DD 00009	PUSHL	#1	
			20 DD 0000B	PUSHL	#32	
			53 DD 0000D	PUSHL	R3	
00000000V	00		03 FB 0000F	CALLS	#3, GETSTRING	
	3A		50 E9 00016	BLBC	R0, 3\$	
	52		63 9A 00019	MOVZBL	RECBUF+116, STRLEN	: 1465
			31 13 0001C	BEQL	2\$	: 1467
	3A	6342	91 0001E	CMPB	RECBUF+116[STRLEN], #58	: 1471
			2B 13 00022	BEQL	2\$	
	1F		52 D1 00024	CPL	STRLEN, #31	: 1474
			1D 19 00027	BLSS	1\$	
		00000000G	00 DD 00029	PUSHL	TOKENPTR	: 1476
	7E	00000000G	00 3C 0002F	MOVZWL	TOKENLEN, -(SP)	
			02 DD 00036	PUSHL	#2	
		00000000G	8F DD 00038	PUSHL	#UAF\$ INVDEV	
00000000G	00		04 FB 0003E	CALLS	#4, LIB\$SIGNAL	
			04 00045	RET		
	01	A342	3A 90 00046	1\$: MOVB	#58, RECBUF+117[STRLEN]	: 1477
63		52	01 81 0004B	ADDB3	#1, STRLEN, RECBUF+116	: 1478
		50	01 D0 0004F	2\$: MOVL	#1, R0	: 1480
			04 00052	RET		
			50 D4 00053	3\$: CLRL	R0	: 1481
			04 00055	RET		

; Routine Size: 86 bytes, Routine Base: \$CODE\$ + 09F4

```
: 1396      1482  1 %sbtti 'getdirectory - get default directory'
: 1397      1483  1 global routine getdirectory =
: 1398      1484  2 begin
: 1399      1485  2 ++
: 1400      1486  2
: 1401      1487  2 FUNCTIONAL DESCRIPTION:
: 1402      1488  2
: 1403      1489  2     This routine parses the user default directory and places
: 1404      1490  2     it into the buffer if the form is correct.  If delimiters
: 1405      1491  2     are not present, they are added.
: 1406      1492  2
: 1407      1493  2 INPUTS:
: 1408      1494  2
: 1409      1495  2     none
: 1410      1496  2
: 1411      1497  2 OUTPUTS:
: 1412      1498  2
: 1413      1499  2     none
: 1414      1500  2
: 1415      1501  2 IMPLICIT INPUTS:
: 1416      1502  2
: 1417      1503  2     TOKENLEN = length of default directory string
: 1418      1504  2     TOKENPTR = pointer to default directory string
: 1419      1505  2
: 1420      1506  2 --
: 1421      1507  2 local BRACKETLESS;
: 1422      1508  2
: 1423      1509  2
: 1424      1510  2     Crank directory spec through tparse
: 1425      1511  2
: 1426      1512  2 tparse_block [tpa$l_stringcnt] = .tokenlen;
: 1427      1513  2 tparse_block [tpa$l_stringptr] = .tokenptr;
: 1428      1514  2
: 1429      1515  2 if not lib$tparse (tparse_block, dir_states, dir_keys)
: 1430      1516  2 then
: 1431      1517  2     return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
: 1432      1518  2
: 1433      1519  2
: 1434      1520  2     Did the string have enclosing brackets (matching is guaranteed
: 1435      1521  2     by the command parser) ??
: 1436      1522  2
: 1437      1523  2 BRACKETLESS = ((.tokenptr)<0,8> neq '[') and ((.tokenptr)<0,8> neq '<');
: 1438      1524  2
: 1439      1525  2
: 1440      1526  2     Make sure that the string isn't too long
: 1441      1527  2
: 1442      1528  2 if (((.tokenlen+1) geq uaf$s_defdir) and not .BRACKETLESS)
: 1443      1529  2 or (((.tokenlen+3) geq uaf$s_defdir)
: 1444      1530  2 then
: 1445      1531  2     return LIB$SIGNAL(UAF$_INVSTR, 2, .tokenlen, .tokenptr);
: 1446      1532  2
: 1447      1533  2
: 1448      1534  2     Move the string into the UAF record
: 1449      1535  2
: 1450      1536  2 if .BRACKETLESS then
: 1451      1537  2     begin
: 1452      1538  2         vector[recbuf[uaf$t_defdir], 0:, byte] = .tokenlen + 2;
```


getdirectory - get default directory

J 13
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (10)

```
: 1453      1539      3      vector[recbuf[uafst_defdir], 1;, byte] = '[';
: 1454      1540      3      ch$copy(.tokenlen, .tokenptr,
: 1455      1541      3      uafss_defdir-2, recbuf[uafst_defdir]+2);
: 1456      1542      3      vector[recbuf[uafst_defdir], .tokenlen+2;, byte] = ']';
: 1457      1543      3      end
: 1458      1544      2      else
: 1459      1545      2      begin
: 1460      1546      2      (recbuf[uafst_defdir])<0,8> = .tokenlen;
: 1461      1547      2      ch$copy(.tokenlen, .tokenptr,
: 1462      1548      2      uafss_defdir-1, recbuf[uafst_defdir]+1);
: 1463      1549      2      end;
: 1464      1550      2
: 1465      1551      2      return true;
: 1466      1552      2
: 1467      1553      1      end;
```

		07FC 00000		.ENTRY	GETDIRECTORY, Save R2,R3,R4,R5,R6,R7,R8,R9,-;	1483
					R10	
		5A 00000000'	00 9E 00002	MOVAB	TPARSE_BLOCK+8, R10	
		59 00000000G	00 9E 00009	MOVAB	TOKENLEN, R9	
		58 00000000G	00 9E 00010	MOVAB	TOKENPTR, R8	
		57 00000000G	00 9E 00017	MOVAB	RECBUF+148, R7	
		6A	69 3C 0001E	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	1512
04	AA		68 D0 00021	MOVL	TOKENPTR, TPARSE_BLOCK+12	1513
		00000000'	00 9F 00025	PUSHAB	DIR_KEYS	1515
		00000000'	00 9F 0002B	PUSHAB	DIR_STATES	
		F8	AA 9F 00031	PUSHAB	TPARSE_BLOCK	
00000000G	00		03 FB 00034	CALLS	#3, LIB\$TPARSE	
	0F		50 E8 0003B	BLBS	R0, 1\$	
			68 DD 0003E	PUSHL	TOKENPTR	1517
	7E		69 3C 00040	MOVZWL	TOKENLEN, -(SP)	
			02 DD 00043	PUSHL	#2	
		00000000G	8F DD 00045	PUSHL	#UAF\$_BADVALUE	
			3F 11 0004B	BRB	6\$	
	52		68 D0 0004D 1\$:	MOVL	TOKENPTR, R2	1523
			51 D4 00050	CLRL	R1	
5B	8F		62 91 00052	CMPB	(R2), #91	
			02 13 00056	BEQL	2\$	
			51 D6 00058	INCL	R1	
			50 D4 0005A 2\$:	CLRL	R0	
	3C		62 91 0005C	CMPB	(R2), #60	
			02 13 0005F	BEQL	3\$	
			50 D6 00061	INCL	R0	
53	53		51 D2 00063 3\$:	MCOML	R1, BRACKETLESS	
	50		53 CB 00066	BICL3	BRACKETLESS, R0, BRACKETLESS	
	51		69 3C 0006A	MOVZWL	TOKENLEN, R1	1528
	50	01	A1 9E 0006D	MOVAB	1(R1), R0	
	3F		50 D1 00071	CMPL	R0, #63	
			03 15 00074	BLEQ	4\$	
	09		53 E9 00076	BLBC	BRACKETLESS, 5\$	
	50	03	A1 9E 00079 4\$:	MOVAB	3(R1), R0	1529
	3F		50 D1 0007D	CMPL	R0, #63	
			12 15 00080	BLEQ	7\$	

UAFPARSE
V04-000

getdirectory - get default directory

K 13

16-Sep-1984 02:21:19

14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1

Page 56

(10)

			06	BB	00082	5\$:	PUSHR	#^M<R1,R2>	1531	
			02	DD	00084		PUSHL	#2		
	00000000G	00	8F	DD	00086		PUSHL	#UAF\$ INVSTR		
			04	FB	0008C	6\$:	CALLS	#4, LTB\$SIGNAL		
				04	00093		RET			
		50	69	3C	00094	7\$:	MOVZWL	TOKENLEN, R0	1538	
		51	68	D0	00097		MOVL	TOKENPTR, R1	1540	
		1A	53	E9	0009A		BLBC	BRACKETLESS, 8\$	1536	
		56	02	A0	9E	0009D	MOVAB	2(R0), R6	1538	
		67	56	90	000A1		MOVB	R6, RECBUF+148		
3E	20	01	A7	5B	8F	90	000A4	MOVB	#91, RECBUF+149	1539
			61		50	2C	000A9	MOVC5	R0, (R1), #32, #62, RECBUF+150	1541
				02	A7		000AE			
		6746	5D	8F	90	000B0	MOVB	#93, RECBUF+148[R6]	1542	
				0A	11	000B5	BRB	9\$	1536	
		67	50	90	000B7	8\$:	MOVB	R0, RECBUF+148	1546	
3F	20	61	50	2C	000BA		MOVC5	R0, (R1), #32, #63, RECBUF+149	1548	
				01	A7		000BF			
		50	01	D0	000C1	9\$:	MOVL	#1, R0	1551	
				04	000C4		RET		1553	

; Routine Size: 197 bytes, Routine Base: \$CODE\$ + 0A4A

UA
VO

00

UAFPARSE
V04-000

checkvalue - check UFD group and member value

L 13
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (11)
Page 57

UA
VO

```
: 1469      1554 1 %sbttl 'checkvalue - check UFD group and member value'
: 1470      1555 1 routine checkvalue =
: 1471      1556 2 begin
: 1472      1557 2 builtin ap;
: 1473      1558 2 map ap: ref block [byte];
: 1474      1559 2 if .ap[tpa$l_number] gtr %o'377' then return false else return true;
: 1475      1560 1 end;
```

0000 00000 CHECKVALUE:						
000000FF	8F	1C	AC D1 00002	.WORD	Save nothing	: 1555
			03 15 0000A	CMPL	28(AP), #255	: 1559
			50 D4 0000C	BLEQ	1\$	:
			04 0000E	CLRL	R0	:
50		01	D0 0000F 1\$:	RET		:
			C4 00012	MOVL	#1, R0	:
				RET		: 1560

. Routine Size: 19 bytes, Routine Base: \$CODE\$ + 0B0F

checklength - check directory name length

M 13
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742 Page 58
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (12)

Page 58

```

: 1477      1561 1 %sbttl 'checklength = check directory name length'
: 1478      1562 1 routine checklength =
: 1479      1563 2 begin
: 1480      1564 2 builtin ap;
: 1481      1565 2 map ap: ref block [,byte];
: 1482      1566 2 if .ap[tpa$l_tokencnt] gtr 39 then return false else return true;
: 1483      1567 1 end;

```

		0000 00000 CHECKLENGTH:				
27	10	AC	D1 00002	.WORD	Save nothing	: 1562
		03	15 00006	CMPL	16(AP), #39	: 1566
		50	D4 00008	BLEQ	1\$	:
			04 0000A	CLRL	R0	:
				RET		:
50		01	D0 0000B 1\$:	MOVL	#1, R0	:
			04 0000E	RET		: 1567

```
; Routine Size: 15 bytes,    Routine Base: $CODE$ + 0B22
```

UA
VO

getflags - get flag bits

```
1485 1568 1 %sbttl 'getflags - get flag bits'
1486 1569 1 global routine getflags =
1487 1570 2 begin
1488 1571 2
1489 1572 2 |++
1490 1573 2 |
1491 1574 2 | FUNCTIONAL DESCRIPTION:
1492 1575 2 |
1493 1576 2 |     Get login flag bit settings.
1494 1577 2 |
1495 1578 2 | INPUTS:
1496 1579 2 |
1497 1580 2 |     none
1498 1581 2 |
1499 1582 2 | IMPLICIT INPUTS:
1500 1583 2 |
1501 1584 2 |     FLAG_TABLE - table of flag bit numbers and ascii names
1502 1585 2 |
1503 1586 2 | OUTPUTS:
1504 1587 2 |
1505 1588 2 |     none
1506 1589 2 |
1507 1590 2 | ROUTINE VALUE:
1508 1591 2 |
1509 1592 2 |     true -> successful completion
1510 1593 2 |     false -> error in flag name
1511 1594 2 | --
1512 1595 2 |
1513 1596 2 | local
1514 1597 2 |     status,
1515 1598 2 |     keyword_dsc      : vector [2],
1516 1599 2 |     no_flag,
1517 1600 2 |     code,             ! return from find_val
1518 1601 2 |     ientry;
1519 1602 2 |
1520 1603 2 |
1521 1604 2 | Retrieve flag values as long as there are any present
1522 1605 2 |
1523 1606 2 |
1524 1607 2 | while cli$get_value (sd_flags, tokendsc) do
1525 1608 2 | |
1526 1609 2 | | Initialize keyword descriptor
1527 1610 2 | |
1528 1611 2 | | begin
1529 1612 2 | | keyword_dsc [0] = .tokenlen;
1530 1613 2 | | keyword_dsc [1] = .tokenptr;
1531 1614 2 | | no_flag = false;
1532 1615 2 | |
1533 1616 2 | |
1534 1617 2 | | If 'NO' prefix specified, set no_flag and adjust the
1535 1618 2 | | keyword descriptor to remove the 'NO'
1536 1619 2 | |
1537 1620 2 | | if ch$eq1 (2, .no_dsc [1], 2, .keyword_dsc [1])
1538 1621 2 | | then
1539 1622 4 | | | begin
1540 1623 4 | | | keyword_dsc [0] = .keyword_dsc [0] - 2;
1541 1624 4 | | | keyword_dsc [1] = .keyword_dsc [1] + 2;
```

getflags - get flag bits

```
: 1542      1625      4      no_flag = true;
: 1543      1626      3      end;
: 1544      1627      3
: 1545      1628      4      if (status = lib$lookup_key (keyword_dsc, flag_table, code))
: 1546      1629      3      then
: 1547      1630      3
: 1548      1631      3          valid flag, set bit
: 1549      1632      3
: 1550      1633      3          (recbuf[uaf$l_flags])<.code,1> = not .no_flag
: 1551      1634      3      else
: 1552      1635      3          select .status of
: 1553      1636      3              set
: 1554      1637      3
: 1555      1638      3              ambiguous keyword?
: 1556      1639      3
: 1557      1640      3              [lib$_ambkey] : signal (cli$_abkeyw);
: 1558      1641      3
: 1559      1642      3              unrecognized keyword?
: 1560      1643      3
: 1561      1644      3              [lib$_unrkey] : signal (cli$_ivkeyw);
: 1562      1645      3
: 1563      1646      3              whatever, always return an error if we're in here
: 1564      1647      3
: 1565      1648      3          [always]      : return false;
: 1566      1649      3      tes;
: 1567      1650      3
: 1568      1651      2      end;
: 1569      1652      2
: 1570      1653      2      return true;
: 1571      1654      1      end;
```

			001C 00000	.ENTRY	GETFLAGS, Save R2,R3,R4	: 1569
	54	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R4	
	5E		0C C2 00009	SUBL2	#12, SP	
		00000000G	00 9F 0000C 1\$:	PUSHAB	TOKENDSC	: 1607
		00000000'	00 9F 00012	PUSHAB	SD_FLAGS	
00000000G	00		02 FB 00018	CALLS	#2, CLI\$GET_VALUE	
	76		50 E9 0001F	BLBC	R0, 5\$	
04	AE	00000000G	00 3C 00022	MOVZWL	TOKENLEN, KEYWORD_DSC	: 1612
08	AE	00000000G	00 D0 0002A	MOVL	TOKENPTR, KEYWORD_DSC+4	: 1613
			52 D4 00032	CLRL	NO_FLAG	: 1614
	50	00000000'	00 D0 00034	MOVL	NO_DSC+4, R0	: 1620
08	BE		60 B1 0003B	CMPW	(R0), @KEYWORD_DSC+4	
			0B 12 0003F	BNEQ	2\$	
04	AE		02 C2 00041	SUBL2	#2, KEYWORD_DSC	: 1623
08	AE		02 C0 00045	ADDL2	#2, KEYWORD_DSC+4	: 1624
	52		01 D0 00049	MOVL	#1, NO_FLAG	: 1625
			5E DD 0004C 2\$:	PUSHL	SP	: 1628
		00000000'	00 9F 0004E	PUSHAB	FLAG_TABLE	
		0C	AE 9F 00054	PUSHAB	KEYWORD_DSC	
00000000G	00		03 FB 00057	CALLS	#3, LIB\$LOOKUP_KEY	
	53		50 D0 0005E	MOVL	R0, STATUS	
	0E		53 E9 00061	BLBC	STATUS, 3\$	

UAFPARSE
V04-000

getflags - get flag bits

C 14
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1
Page 61
(13)

00000000G	00	01	50	52	D2	00064	MCOML	NO_FLAG, R0	:	1633
			6E	50	F0	00067	INSV	R0, CODE, #1, RECBUF+468	:	
				9A	11	00070	BRB	1\$	:	
		00000000G	8F	53	D1	00072	3\$:	CMPL	STATUS, #LIB\$_AMBKEY	1640
				09	12	00079	BNEQ	4\$	:	
		00000000G		8F	DD	0007B	PUSHL	#CLIS_ABKEYW	:	
			64	01	FB	00081	CALLS	#1, LIB\$SIGNAL	:	
		00000000G	8F	53	D1	00084	4\$:	CMPL	STATUS, #LIB\$_UNRKEY	1644
				0F	12	0008B	BNEQ	6\$	:	
		00000000G		8F	DD	0008D	PUSHL	#CLIS_IVKEYW	:	
			64	01	FB	00093	CALLS	#1, LIB\$SIGNAL	:	
				04	11	00096	BRB	6\$	:	1648
			50	01	D0	00098	5\$:	MOVL	#1, R0	1653
					04	0009B	RET		:	
				50	D4	0009C	6\$:	CLRL	R0	1654
					04	0009E	RET		:	

; Routine Size: 159 bytes, Routine Base: \$CODE\$ + 0B31

getpflags - get old per day login flags

```
: 1573 1655 1 %sbttl 'getpflags - get old per day login flags'
: 1574 1656 1 global routine getpflags (qual_name) =
: 1575 1657 2 begin
: 1576 1658 2
: 1577 1659 2 ++
: 1578 1660 2
: 1579 1661 2 FUNCTIONAL DESCRIPTION:
: 1580 1662 2
: 1581 1663 2     Get prime day login flag bit settings.
: 1582 1664 2
: 1583 1665 2 INPUTS:
: 1584 1666 2
: 1585 1667 2     qual_name - address of descriptor for qualifier name
: 1586 1668 2
: 1587 1669 2 IMPLICIT INPUTS:
: 1588 1670 2
: 1589 1671 2     OPFLAG TABLE - table of flag bit numbers and ascii names
: 1590 1672 2     PRIMARY - true if getting primary day, false if secondary
: 1591 1673 2
: 1592 1674 2 OUTPUTS:
: 1593 1675 2
: 1594 1676 2     none
: 1595 1677 2
: 1596 1678 2 ROUTINE VALUE:
: 1597 1679 2
: 1598 1680 2     true -> successful completion
: 1599 1681 2     false -> error in flag name
: 1600 1682 2 --
: 1601 1683 2 local
: 1602 1684 2
: 1603 1685 2     status,
: 1604 1686 2     keyword_dsc      : vector [2],
: 1605 1687 2     no_flag,
: 1606 1688 2     code,              ! return from find_val
: 1607 1689 2     ientry;
: 1608 1690 2
: 1609 1691 2
: 1610 1692 2 Retrieve keywords as long as any are present
: 1611 1693 2
: 1612 1694 2 while cli$get_value (.qual_name, tokendsc) do
: 1613 1695 2
: 1614 1696 2     begin
: 1615 1697 2     keyword_dsc [0] = .tokenlen;
: 1616 1698 2     keyword_dsc [1] = .tokenptr;
: 1617 1699 2     no_flag = 0;
: 1618 1700 2
: 1619 1701 2
: 1620 1702 2     Test for presence of 'NO' prefix. If present, adjust descriptor
: 1621 1703 2     to remove it, and set no_flag.
: 1622 1704 2
: 1623 1705 2     if ch$eq1 (2, .no_dsc [1], 2, .keyword_dsc [1])
: 1624 1706 2     then
: 1625 1707 2
: 1626 1708 2         begin
: 1627 1709 2         keyword_dsc [0] = .keyword_dsc [0] - 2;
: 1628 1710 2         keyword_dsc [1] = .keyword_dsc [1] + 2;
: 1629 1711 2         no_flag = -1;
```


getpflags - get old per day login flags

```
1630 1712 3      end;
1631 1713 3
1632 1714 4      if (status = lib$lookup_key (keyword_dsc, opflag_table, code))
1633 1715 3      then
1634 1716 3          valid flag, set bit
1635 1717 3
1636 1718 3          case .code from uaf$k_disdialup to uaf$k_disnetwork of
1637 1719 3              set
1638 1720 3              [uaf$k_disdialup]:
1639 1721 3                  begin
1640 1722 4                      if .primary
1641 1723 4                      then recbuf[uaf$b_dialup_access_p] = not .no_flag
1642 1724 4                      else recbuf[uaf$b_dialup_access_s] = not .no_flag;
1643 1725 4                  end;
1644 1726 3              [uaf$k_disnetwork]:
1645 1727 3                  begin
1646 1728 4                      if .primary
1647 1729 4                      then recbuf[uaf$b_remote_access_p] = not .no_flag
1648 1730 4                      else recbuf[uaf$b_remote_access_s] = not .no_flag;
1649 1731 4                  end;
1650 1732 3              tes
1651 1733 3      else
1652 1734 3          select .status of
1653 1735 3              set
1654 1736 3              : ambiguous keyword?
1655 1737 3              [lib$_ambkey] : signal (cli$_abkeyw);
1656 1738 3              unrecognized keyword?
1657 1739 3              [lib$_unrkey] : signal (cli$_ivkeyw);
1658 1740 3              whatever, always return an error if we're in here
1659 1741 3              [always]      : return false;
1660 1742 3          tes;
1661 1743 3
1662 1744 3      end;
1663 1745 3
1664 1746 3      return true;
1665 1747 3
1666 1748 3
1667 1749 3
1668 1750 3
1669 1751 2
1670 1752 2
1671 1753 2
1672 1754 1 end;
```

```
003C 00000
55 00000000G 00 9E 00002
54 00000000G 00 9E 00009
5E 00000000G 0C C2 00010
00000000G 00 9F 00013 1$:
04 AC DD 00019
00000000G 00 02 FB 0001C
03 50 E8 00023
009F 31 00026
```

.ENTRY GETPFLAGS, Save R2,R3,R4,R5
MOVAB LIB\$SIGNAL, R5
MOVAB RECBUF+490, R4
SUBL2 #12, SP
PUSHAB TOKENDSC
PUSHL QUAL_NAME
CALLS #2, CLI\$GET_VALUE
BLBS R0, 2\$
BRW 12\$

1656

1694

	04	AE	00000000G	00	3C	00029	2\$:	MOVZWL	TOKENLEN, KEYWORD_DSC	:	1697
	08	AE	00000000G	00	D0	00031		MOVL	TOKENPTR, KEYWORD_DSC+4	:	1698
				52	D4	00039		CLRL	NO_FLAG	:	1699
		50	00000000'	00	D0	00038		MOVL	NO_DSC+4, R0	:	1705
	08	BE		60	B1	00042		CMPW	(R0), @KEYWORD_DSC+4	:	
				08	12	00046		BNEQ	3\$	:	
	04	AE		02	C2	00048		SUBL2	#2, KEYWORD_DSC	:	1709
	08	AE		02	C0	0004C		ADDL2	#2, KEYWORD_DSC+4	:	1710
		52		01	CE	00050		MNEGL	#1, NO_FLAG	:	1711
				5E	DD	00053	3\$:	PUSHL	SP	:	1714
			00000000'	00	9F	00055		PUSHAB	OPFLAG_TABLE	:	
			OC	AE	9F	00058		PUSHAB	KEYWORD_DSC	:	
	00000000G	00		03	FB	0005E		CALLS	#3, LIB\$LOOKUP_KEY	:	
		53		50	D0	00065		MOVL	R0, STATUS	:	
		37		53	E9	00068		BLBC	STATUS, 10\$	:	
		51	00000000'	00	D0	0006B		MOVL	PRIMARY, R1	:	1723
		50		52	D2	00072		MCOML	NO_FLAG, R0	:	1724
	01	01		6E	CF	00075		CASEL	CODE, #1, #1	:	1719
		0016		0004		00079	4\$:	.WORD	5\$-4\$,-	:	
									8\$-4\$	:	
		07		51	E9	0007D	5\$:	BLBC	R1, 7\$	:	1723
	64	18	00	50	F0	00080		INSV	R0, #0, #24, RECBUF+490	:	1724
				8C	11	00085	6\$:	BRB	1\$	:	
03	A4	18	00	50	F0	00087	7\$:	INSV	R0, #0, #24, RECBUF+493	:	1725
				84	11	0008D		BRB	1\$	:	1719
		08		51	E9	0008F	8\$:	BLBC	R1, 9\$	:	1729
06	A4	18	00	50	F0	00092		INSV	R0, #0, #24, RECBUF+496	:	1730
				EB	11	00098		BRB	6\$	:	
09	A4	18	00	50	F0	0009A	9\$:	INSV	R0, #0, #24, RECBUF+499	:	1731
				E3	11	000A0		BRB	6\$	:	1719
	00000000G	8F		53	D1	000A2	10\$:	CMPL	STATUS, #LIB\$_AMBKEY	:	1740
				09	12	000A9		BNEQ	11\$	:	
		00000000G		8F	DD	000AB		PUSHL	#CLIS_ABKEYW	:	
		65		01	FB	000B1		CALLS	#1, LIB\$SIGNAL	:	
	00000000G	8F		53	D1	000B4	11\$:	CMPL	STATUS, #LIB\$_UNRKEY	:	1744
				0F	12	000BB		BNEQ	13\$	:	
		00000000G		8F	DD	000BD		PUSHL	#CLIS_IVKEYW	:	
		65		01	FB	000C3		CALLS	#1, LIB\$SIGNAL	:	
				04	11	000C6		BRB	13\$	:	1748
		50		01	D0	000C8	12\$:	MOVL	#1, R0	:	1753
					04	000CB		RET		:	
				50	D4	000CC	13\$:	CLRL	R0	:	1754
					04	000CE		RET		:	

; Routine Size: 207 bytes, Routine Base: \$CODE\$ + 0BD0

```
: 1674      1755 1 %sbttl 'getrestrict - parse hourly restriction ranges'
: 1675      1756 1 global routine getrestrict (qual_name) =
: 1676      1757 2 begin
: 1677      1758 2
: 1678      1759 2 ++
: 1679      1760 2
: 1680      1761 2 FUNCTIONAL DESCRIPTION:
: 1681      1762 2
: 1682      1763 2 Parse hourly login restrictions for primary or secondary days
: 1683      1764 2
: 1684      1765 2 INPUTS:
: 1685      1766 2
: 1686      1767 2 qual_name - descriptor of qualifier name to use
: 1687      1768 2
: 1688      1769 2 IMPLICIT INPUTS:
: 1689      1770 2
: 1690      1771 2
: 1691      1772 2 OUTPUTS:
: 1692      1773 2
: 1693      1774 2 none
: 1694      1775 2
: 1695      1776 2 ROUTINE VALUE:
: 1696      1777 2
: 1697      1778 2 true -> successful completion
: 1698      1779 2 false -> error in flag name
: 1699      1780 2 --
: 1700      1781 2
: 1701      1782 2
: 1702      1783 2 Initialize output values.
: 1703      1784 2
: 1704      1785 2 primary_access = 0;
: 1705      1786 2 secondary_access = 0;
: 1706      1787 2
: 1707      1788 2
: 1708      1789 2 Fetch value list items and parse them.
: 1709      1790 2
: 1710      1791 2 while true
: 1711      1792 2 do
: 1712      1793 3 begin
: 1713      1794 3 if not cli$get_value (.qual_name, tokendsc)
: 1714      1795 3 then exitloop;
: 1715      1796 3
: 1716      1797 3 tparse_block[tpa$l_stringcnt] = .tokenlen;
: 1717      1798 3 tparse_block[tpa$l_stringptr] = .tokenptr;
: 1718      1799 3 if not lib$tparse (tparse_block, access_states, access_keys)
: 1719      1800 3 then return LIB$SIGNAL(UAF$BADVALUE, 2, .tokenlen, .tokenptr);
: 1720      1801 3 end;
: 1721      1802 2
: 1722      1803 2
: 1723      1804 2 Write the modified fields into the UAF record.
: 1724      1805 2
: 1725      1806 2 if not .secondary
: 1726      1807 2 then
: 1727      1808 3 begin
: 1728      1809 3 recbuf[uaf$b_network_access_p] = .primary_access;
: 1729      1810 3 recbuf[uaf$b_batch_access_p] = .primary_access;
: 1730      1811 3 recbuf[uaf$b_local_access_p] = .primary_access;
```

```
: 1731      1812 3      recbuf[uaf$b_dialup_access_p] = .primary_access;
: 1732      1813 3      recbuf[uaf$b_remote_access_p] = .primary_access;
: 1733      1814 3      end
: 1734      1815 2      else
: 1735      1816 3      begin
: 1736      1817 3      recbuf[uaf$b_network_access_s] = .secondary_access;
: 1737      1818 3      recbuf[uaf$b_batch_access_s] = .secondary_access;
: 1738      1819 3      recbuf[uaf$b_local_access_s] = .secondary_access;
: 1739      1820 3      recbuf[uaf$b_dialup_access_s] = .secondary_access;
: 1740      1821 3      recbuf[uaf$b_remote_access_s] = .secondary_access;
: 1741      1822 2      end;
: 1742      1823 2
: 1743      1824 2 true
: 1744      1825 1 end;
```

				003C 00000	.ENTRY	GETRESTRICT, Save R2,R3,R4,R5	: 1756
		55	00000000G	00 9E 00002	MOVAB	TOKENPTR, R5	
		54	00000000G	00 9E 00009	MOVAB	TOKENLEN, R4	
		53	00000000'	00 9E 00010	MOVAB	PRIMARY_ACCESS, R3	
		52	00000000G	00 9E 00017	MOVAB	RECBUF+472, R2	
				63 7C 0001E	CLRQ	PRIMARY_ACCESS	: 1785
			00000000G	00 9F 00020 1\$:	PUSHAB	TOKENDC	: 1794
			04	AC DD 00026	PUSHL	QUAL_NAME	
		00000000G	00	02 FB 00029	CALLS	#2, CLISGET_VALUE	
		36		50 E9 00030	BLBC	R0, 2\$	
	D4	A3		64 3C 00033	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	: 1797
	D8	A3		65 D0 00037	MOVL	TOKENPTR, TPARSE_BLOCK+12	: 1798
			00000000'	00 9F 0003B	PUSHAB	ACCESS_KEYS	: 1799
			00000000'	00 9F 00041	PUSHAB	ACCESS_STATES	
			CC	A3 9F 00047	PUSHAB	TPARSE_BLOCK	
		00000000G	00	03 FB 0004A	CALLS	#3, LIB\$TPARSE	
		CC		50 E8 00051	BLBS	R0, 1\$	
				65 DD 00054	PUSHL	TOKENPTR	: 1800
		7E		64 3C 00056	MOVZWL	TOKENLEN, -(SP)	
				02 DD 00059	PUSHL	#2	
			00000000G	8F DD 0005B	PUSHL	#UAF\$ BADVALUE	
		00000000G	00	04 FB 00061	CALLS	#4, LIB\$SIGNAL	
				04 00068	RET		
		22	10	A3 E8 00069 2\$:	BLBS	SECONDARY, 3\$	: 1806
		50		63 D0 0006D	MOVL	PRIMARY_ACCESS, R0	: 1809
		00		50 F0 00070	INSV	R0, #0, #24, RECBUF+472	
06	A2	18		50 F0 00075	INSV	R0, #0, #24, RECBUF+478	: 1810
0C	A2	18		50 F0 0007B	INSV	R0, #0, #24, RECBUF+484	: 1811
12	A2	18		50 F0 00081	INSV	R0, #0, #24, RECBUF+490	: 1812
18	A2	18		50 F0 00087	INSV	R0, #0, #24, RECBUF+496	: 1813
				22 11 0008D	BRB	4\$	: 1806
		50	04	A3 D0 0008F 3\$:	MOVL	SECONDARY_ACCESS, R0	: 1817
03	A2	18		50 F0 00093	INSV	R0, #0, #24, RECBUF+475	
09	A2	18		50 F0 00099	INSV	R0, #0, #24, RECBUF+481	: 1818
0F	A2	18		50 F0 0009F	INSV	R0, #0, #24, RECBUF+487	: 1819
15	A2	18		50 F0 000A5	INSV	R0, #0, #24, RECBUF+493	: 1820
1B	A2	18		50 F0 000AB	INSV	R0, #0, #24, RECBUF+499	: 1821
		50		01 D0 000B1 4\$:	MOVL	#1, R0	: 1825

UAFPARSE
V04-000

getrestrict - parse hourly restriction ranges

I 14
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (15)

Page 67

04 000B4

RET

;

; Routine Size: 181 bytes, Routine Base: \$CODE\$ + 0C9F

UA
VC

getprimedays - get primary day list

```
: 1746 1826 1 %sbttl 'getprimedays - get primary day list'
: 1747 1827 1 global routine getprimedays =
: 1748 1828 2 begin
: 1749 1829 2
: 1750 1830 2 ++
: 1751 1831 2
: 1752 1832 2 FUNCTIONAL DESCRIPTION:
: 1753 1833 2
: 1754 1834 2     Get list of day considered prime days.
: 1755 1835 2
: 1756 1836 2 INPUTS:
: 1757 1837 2
: 1758 1838 2     none
: 1759 1839 2
: 1760 1840 2 IMPLICIT INPUTS:
: 1761 1841 2
: 1762 1842 2     PDFLAG_TABLE - table of flag bit numbers and ascii names
: 1763 1843 2
: 1764 1844 2 OUTPUTS:
: 1765 1845 2
: 1766 1846 2     none
: 1767 1847 2
: 1768 1848 2 ROUTINE VALUE:
: 1769 1849 2
: 1770 1850 2     true -> successful completion
: 1771 1851 2     false -> error in flag name
: 1772 1852 2 --
: 1773 1853 2
: 1774 1854 2 local
: 1775 1855 2     status,
: 1776 1856 2     keyword_dsc      : vector [2],
: 1777 1857 2     no_flag,
: 1778 1858 2     code,              ! return from find_val
: 1779 1859 2     ientry;
: 1780 1860 2
: 1781 1861 2
: 1782 1862 2     Retrieve keywords as long as they are present
: 1783 1863 2
: 1784 1864 2 while cli$get_value (sd_primedays, tokendsc) do
: 1785 1865 2
: 1786 1866 2     begin
: 1787 1867 2     keyword_dsc [0] = .tokenlen;
: 1788 1868 2     keyword_dsc [1] = .tokenptr;
: 1789 1869 2     no_flag = false;
: 1790 1870 2
: 1791 1871 2
: 1792 1872 2     Test for presence of the 'NO' prefix. If present, adjust the
: 1793 1873 2     descriptor to remove it, and set no_flag
: 1794 1874 2
: 1795 1875 2     if ch$eq1 (2, .no_dsc [1], 2, .keyword_dsc [1])
: 1796 1876 2     then
: 1797 1877 2         begin
: 1798 1878 2         keyword_dsc [0] = .keyword_dsc [0] - 2;
: 1799 1879 2         keyword_dsc [1] = .keyword_dsc [1] + 2;
: 1800 1880 2         no_flag = true;
: 1801 1881 2         end;
: 1802 1882 2
```

getprimedays - get primary day list

```
1803 1883 4 if (status = lib$lookup_key (keyword_dsc, pdf$flag_table, code))
1804 1884 then
1805 1885
1806 1886     valid flag, set bit
1807 1887
1808 1888     (recbuf[uaf$b_primedays])<.code,1> = .no_flag
1809 1889 else
1810 1890     select .status of
1811 1891     set
1812 1892     :
1813 1893     : ambiguous keyword?
1814 1894     :
1815 1895     : [lib$_ambkey] : signal (cli$_abkeyw);
1816 1896     :
1817 1897     : unrecognized keyword?
1818 1898     :
1819 1899     : [lib$_unrkey] : signal (cli$_ivkeyw);
1820 1900     :
1821 1901     : whatever, always return an error if we're in here
1822 1902     :
1823 1903     : [always] : return false;
1824 1904     tes;
1825 1905
1826 1906 end;
1827 1907
1828 1908 return true;
1829 1909 end;
```

				001C 00000	.ENTRY GETPRIMEDAYS, Save R2,R3,R4	1827
	54	00000000G	00	9E 00002	MOVAB LIB\$SIGNAL, R4	
	5E		0C	C2 00009	SUBL2 #12, SP	
		00000000G	00	9F 0000C 1\$:	PUSHAB TOKENDSC	1864
		00000000'	00	9F 00012	PUSHAB SD_PRIMEDAYS	
	00000000G	00	02	FB 00018	CALLS #2, CLISGET_VALUE	
	73		50	E9 0001F	BLBC R0, 5\$	
	04	AE 00000000G	00	3C 00022	MOVZWL TOKENLEN, KEYWORD_DSC	1867
	08	AE 00000000G	00	D0 0002A	MOVL TOKENPTR, KEYWORD_DSC+4	1868
			52	D4 00032	CLRL NO_FLAG	1869
	50	00000000'	00	D0 00034	MOVL NO_DSC+4, R0	1875
	08	BE	60	B1 0003B	CMPL (R0), @KEYWORD_DSC+4	
			0B	12 0003F	BNEQ 2\$	
	04	AE	02	C2 00041	SUBL2 #2, KEYWORD_DSC	1878
	08	AE	02	C0 00045	ADDL2 #2, KEYWORD_DSC+4	1879
	52		01	D0 00049	MOVL #1, NO_FLAG	1880
			5E	DD 0004C 2\$:	PUSHL SP	1883
		00000000'	00	9F 0004E	PUSHAB PDFLAG_TABLE	
		0C	AE	9F 00054	PUSHAB KEYWORD_DSC	
	00000000G	00	03	FB 00057	CALLS #3, LIB\$LOOKUP_KEY	
	53		50	D0 0005E	MOVL R0, STATUS	
00000000G 00	08		53	E9 00061	BLBC STATUS, 3\$	
	6E		52	F0 00064	INSV NO_FLAG, CODE, #1, RECBUF+514	1888
			9D	11 0006D	BRB 1\$	
00000000G 8F			53	D1 0006F 3\$:	CMPL STATUS, #LIB\$_AMBKEY	1895

UAFPARSE
V04-000

getprimedays - get primary day list

L 14
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1
Page 70
(16)

		09	12	00076	BNEQ	4\$		
		8F	DD	00078	PUSHL	#CLIS_ABKEYW		
		01	FB	0007E	CALLS	#1, LIB\$SIGNAL		
00000000G	64	53	D1	00081	CMPL	STATUS, #LIB\$_UNRKEY		1899
	8F	0F	12	00088	BNEQ	6\$		
		8F	DD	0008A	PUSHL	#CLIS_IVKEYW		
	64	01	FB	00090	CALLS	#1, LIB\$SIGNAL		
		04	11	00093	BRB	6\$		1903
	50	01	D0	00095	MOVL	#1, R0		1908
			04	00098	RET			
		50	D4	00099	CLRL	R0		1909
			04	0009B	RET			

; Routine Size: 156 bytes, Routine Base: \$CODE\$ + 0D54

getpriv - get process privileges

```
: 1831 1910 1 %sbttl 'getpriv - get process privileges'
: 1832 1911 1 global routine getpriv (qual_name, privadr) =
: 1833 1912 2 begin
: 1834 1913 2
: 1835 1914 2 ++
: 1836 1915 2
: 1837 1916 2 FUNCTIONAL DESCRIPTION:
: 1838 1917 2
: 1839 1918 2 Process privilege mask specification and set or
: 1840 1919 2 clear proper bits in privilege quadword in RECBUF.
: 1841 1920 2
: 1842 1921 2 INPUTS:
: 1843 1922 2
: 1844 1923 2 qual_name - descriptor of qualifier name to use
: 1845 1924 2 privadr - address to store privilege bits
: 1846 1925 2
: 1847 1926 2 IMPLICIT INPUTS:
: 1848 1927 2
: 1849 1928 2 none
: 1850 1929 2
: 1851 1930 2 OUTPUTS:
: 1852 1931 2
: 1853 1932 2 none
: 1854 1933 2
: 1855 1934 2 IMPLICIT OUTPUTS:
: 1856 1935 2
: 1857 1936 2 none
: 1858 1937 2
: 1859 1938 2 ROUTINE VALUE:
: 1860 1939 2
: 1861 1940 2 true -> input processed successfully
: 1862 1941 2 false -> error in privilege specification
: 1863 1942 2
: 1864 1943 2 SIDE EFFECTS:
: 1865 1944 2
: 1866 1945 2 none
: 1867 1946 2 --
: 1868 1947 2
: 1869 1948 2
: 1870 1949 2 Loop through if this is a list and check all of the names.
: 1871 1950 2 Set or clear appropriate bits depending on the 'NO' prefix.
: 1872 1951 2
: 1873 1952 2
: 1874 1953 2 while cli$get_value (.qual_name, tokendsc) do
: 1875 1954 2 begin
: 1876 1955 2
: 1877 1956 2 select prv$setpriv (tokendsc, .privadr) of
: 1878 1957 2
: 1879 1958 2 set
: 1880 1959 2
: 1881 1960 2 Privilege name not found
: 1882 1961 2
: 1883 1962 2 [prv$ invnam]:
: 1884 1963 2 return LIB$SIGNAL(UAF$_PRVNOTFND, 2, .tokenlen, .tokenptr);
: 1885 1964 2
: 1886 1965 2
: 1887 1966 2 Privilege name not unique
```

UAFPARSE
V04-000

getpriv - get process privileges

N 14
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (17) Page 72

```
; 1888      1967      3      !
; 1889      1968      3      [priv$_notunq]:
; 1890      1969      3      return LIB$SIGNAL(UAF$_PRVNOTUNQ, 2, .tokenlen, .tokenptr);
; 1891      1970      3
; 1892      1971      3      tes;
; 1893      1972      3
; 1894      1973      3      end;
; 1895      1974      3
; 1896      1975      2      return true;
; 1897      1976      1      end;
```

			003C 00000	.ENTRY	GETPRIV, Save R2,R3,R4,R5	1911
55	00000000G	00	9E 00002	MOVAB	TOKENDSC, R5	
54	00000000G	00	9E 00009	MOVAB	TOKENLEN, R4	
53	00000000G	00	9E 00010	MOVAB	TOKENPTR, R3	
		55	DD 00017 1\$:	PUSHL	R5	1953
		04	AC DD 00019	PUSHL	QUAL_NAME	
00000000G	00	02	FB 0001C	CALLS	#2, CLISGET_VALUE	
	45	50	E9 00023	BLBC	R0, 4\$	
		08	AC DD 00026	PUSHL	PRIVADR	1956
		55	DD 00029	PUSHL	R5	
00000000G	00	02	FB 0002B	CALLS	#2, PRV\$SETPRIV	
	52	50	D0 00032	MOVL	R0, R2	
00000000G	8F	52	D1 00035	CMPL	R2, #PRV\$_INVMAM	1962
		0F	12 0003C	BNEQ	2\$	
		63	DD 0003E	PUSHL	TOKENPTR	1963
	7E	64	3C 00040	MOVZWL	TOKENLEN, -(SP)	
		02	DD 00043	PUSHL	#2	
	00000000G	8F	DD 00045	PUSHL	#UAF\$_PRVNOTFND	
		16	11 0004B	BRB	3\$	
00000000G	8F	52	D1 0004D 2\$:	CMPL	R2, #PRV\$_NOTUNQ	1968
		C1	12 00054	BNEQ	1\$	
		63	DD 00056	PUSHL	TOKENPTR	1969
	7E	64	3C 00058	MOVZWL	TOKENLEN, -(SP)	
		02	DD 0005B	PUSHL	#2	
	00000000G	8F	DD 0005D	PUSHL	#UAF\$_PRVNOTUNQ	
00000000G	00	04	FB 00063 3\$:	CALLS	#4, LIB\$SIGNAL	
		04	0006A	RET		
	50	01	D0 0006B 4\$:	MOVL	#1, R0	1975
		04	0006E	RET		1976

; Routine Size: 111 bytes, Routine Base: \$CODE\$ + 0DF0

```

: 1899      1977 1 %sbttl 'getuic - get user identification code'
: 1900      1978 1 global routine getuic =
: 1901      1979 2 begin
: 1902      1980 2
: 1903      1981 2 ++
: 1904      1982 2
: 1905      1983 2 FUNCTIONAL DESCRIPTION:
: 1906      1984 2
: 1907      1985 2 Process UIC specification
: 1908      1986 2
: 1909      1987 2 INPUTS:
: 1910      1988 2
: 1911      1989 2 none
: 1912      1990 2
: 1913      1991 2 OUTPUTS:
: 1914      1992 2
: 1915      1993 2 none
: 1916      1994 2
: 1917      1995 2 ROUTINE VALUE:
: 1918      1996 2
: 1919      1997 2 none
: 1920      1998 2 --
: 1921      1999 2
: 1922      2000 2
: 1923      2001 2 Parse UIC and return error if invalid.
: 1924      2002 2 Do not allow wild card group or member numbers
: 1925      2003 2
: 1926      2004 2
: 1927      2005 2 if not parse_uic (recbuf[uaf$w_grp], recbuf[uaf$w_mem], false)
: 1928      2006 2 then return [LIB$SIGNAL(UAF$_UICERR, 2, .tokenlen, .tokenptr);
: 1929      2007 2
: 1930      2008 2 true
: 1931      2009 1 end;

```

			0000 00000	.ENTRY GETUIC, Save nothing	
		7E	D4 00002	CLRL -(SP)	
	00000000G	00	9F 00004	PUSHAB RECBUF+36	
	00000000G	00	9F 0000A	PUSHAB RECBUF+38	
00000000V	00	03	FB 00010	CALLS #3, PARSE_UIC	
	1D	50	E8 00017	BLBS R0, 1\$	
	00000000G	00	DD 0001A	PUSHL TOKENPTR	
	7E 00000000G	00	3C 00020	MOVZWL TOKENLEN, -(SP)	
		02	DD 00027	PUSHL #2	
	00000000G	8F	DD 00029	PUSHL #UAF\$ UICERR	
00000000G	00	04	FB 0002F	CALLS #4, LIB\$SIGNAL	
			04 00036	RET	
	50	01	D0 00037 1\$:	MOVL #1, R0	
			04 0003A	RET	

; Routine Size: 59 bytes, Routine Base: \$CODE\$ + 0E5F

1978
2005

2006

2009

parse_uic - obtain UIC group and member

```
: 1933      2010 1 %sbttl 'parse_uic - obtain UIC group and member'
: 1934      2011 1 global routine parse_uic (retgrp, retmem, allow_wild) =
: 1935      2012 2 begin
: 1936      2013 2
: 1937      2014 2 ++
: 1938      2015 2
: 1939      2016 2 FUNCTIONAL DESCRIPTION:
: 1940      2017 2
: 1941      2018 2     Routine to parse and validate a UIC or directory string.
: 1942      2019 2     The UIC is returned as group and member elements.
: 1943      2020 2
: 1944      2021 2 INPUTS:
: 1945      2022 2
: 1946      2023 2     RETGRP      - address of a word to receive the group number
: 1947      2024 2     RETMEM      - address of a word to receive the member number
: 1948      2025 2     ALLOW_WILD   - TRUE => allow wild card group/member numbers
: 1949      2026 2
: 1950      2027 2 IMPLICIT INPUTS:
: 1951      2028 2
: 1952      2029 2     TOKENPTR - address of first character past delimiter
: 1953      2030 2
: 1954      2031 2 OUTPUTS:
: 1955      2032 2
: 1956      2033 2     RETGRP and RETMEM receive group and member numbers if
: 1957      2034 2     no errors are encountered.
: 1958      2035 2
: 1959      2036 2 IMPLICIT OUTPUTS:
: 1960      2037 2
: 1961      2038 2     none
: 1962      2039 2
: 1963      2040 2 ROUTINE VAUE:
: 1964      2041 2
: 1965      2042 2     true -> no errors found
: 1966      2043 2     false -> error in UIC specification
: 1967      2044 2
: 1968      2045 2 SIDE EFFECTS:
: 1969      2046 2
: 1970      2047 2     None
: 1971      2048 2 --
: 1972      2049 2
: 1973      2050 2
: 1974      2051 2     Crank UIC through tparse
: 1975      2052 2
: 1976      2053 2 tparse_block [tpa$l_stringcnt] = .tokenlen;
: 1977      2054 2 tparse_block [tpa$l_stringptr] = .tokenptr;
: 1978      2055 2
: 1979      2056 2 if not lib$tparse (tparse_block, uic_states, uic_keys)
: 1980      2057 2 then return false;
: 1981      2058 2 if .converted_uic<00,16> gtru uic$k_wild_member
: 1982      2059 2 or .converted_uic<16,16> gtru uic$k_wild_group
: 1983      2060 2 then return false;
: 1984      2061 2 if not .allow_wild
: 1985      2062 2 then
: 1986      2063 2     if .converted_uic<00,16> eqlu uic$k_wild_member
: 1987      2064 2     or .converted_uic<16,16> eqlu uic$k_wild_group
: 1988      2065 2     then return false;
: 1989      2066 2
```

parse_uic - obtain UIC group and member

D 15
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742 Page 75
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (19)

```

: 1990
: 1991
: 1992
: 1993
: 1994
: 1995
: 1996
: 1997
2067 2 !
2068 2 ! UIC was successfully parsed. Return correct data, plus true indicaton.
2069 2 !
2070 2 !
2071 2 (.retgrp)<0,16> = .converted_uic<16,16>;
2072 2 (.retmem)<0,16> = .converted_uic<0,16>;
2073 2 return true;
2074 1 end;

```

			0004 00000	.ENTRY	PARSE UIC, Save R2	: 2011
			00 9E 00002	MOVAB	CONVERTED_UIC, R2	
E4	A2	00000000G	00 3C 00009	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	: 2053
E8	A2	00000000G	00 D0 00011	MOVL	TOKENPTR, TPARSE_BLOCK+12	: 2054
		00000000'	00 9F 00019	PUSHAB	UIC_KEYS	: 2056
		00000000'	00 9F 0001F	PUSHAB	UIC_STATES	
		DC	A2 9F 00025	PUSHAB	TPARSE_BLOCK	
00000000G	00		03 FB 00028	CALLS	#3, LIB\$TPARSE	
	29		50 E9 0002F	BLBC	R0, 2\$	
	50	02	A2 3C 00032	MOVZWL	CONVERTED_UIC+2, R0	: 2059
3FFF	8F		50 B1 00036	CMPW	R0, #16383	
			1E 1A 0003B	BGTRU	2\$	
	0E	0C	AC E8 0003D	BLBS	ALLOW WILD, 1\$	: 2061
FFFF	8F		62 B1 00041	CMPW	CONVERTED_UIC, #65535	: 2063
			13 13 00046	BEGL	2\$	
3FFF	8F		50 B1 00048	CMPW	R0, #16383	: 2064
			0C 13 0004D	BEQL	2\$	
04	BC		50 B0 0004F	MOVW	R0, @RETGRP	: 2071
08	BC		62 B0 00053	MOVW	CONVERTED_UIC, @RETMEM	: 2072
	50		01 D0 00057	MOVL	#1, R0	: 2073
			04 0005A	RET		
			50 D4 0005B	CLRL	R0	: 2074
			04 0005D	RET		

; Routine Size: 94 bytes, Routine Base: \$CODE\$ + 0E9A

```

: 1999      2075 1 %sbttl 'parse_wild - parse wildcarded user specification'
: 2000      2076 1 global routine parse_wild (desc_addr,nulldefault) =
: 2001      2077 2 begin
: 2002      2078 2
: 2003      2079 2 ++
: 2004      2080 2
: 2005      2081 2 FUNCTIONAL DESCRIPTION:
: 2006      2082 2
: 2007      2083 2     Parse one of six methods by which User Authorization File
: 2008      2084 2     records may be specified. This routine defines boolean
: 2009      2085 2     variables for input to the WILD_USER routine.
: 2010      2086 2
: 2011      2087 2 INPUTS:
: 2012      2088 2
: 2013      2089 2     DESCADDR      Address of the token string descriptor
: 2014      2090 2     NULLDEFAULT  TRUE => A null user specification defaults to *
: 2015      2091 2
: 2016      2092 2 IMPLICIT INPUTS:
: 2017      2093 2
: 2018      2094 2     The parsing variables NEXTTOKEN, TOKENLEN, and TOKENPTR are modified.
: 2019      2095 2
: 2020      2096 2 OUTPUTS:
: 2021      2097 2
: 2022      2098 2     none
: 2023      2099 2
: 2024      2100 2 IMPLICIT OUTPUTS:
: 2025      2101 2
: 2026      2102 2     The following boolean variables are decided:
: 2027      2103 2
: 2028      2104 2     UIC_FLAG - UIC form (instead of username)
: 2029      2105 2     GRP_WILD - Group wild card (implies UIC_FLAG)
: 2030      2106 2     MEM_WILD - Member wild card (implies UIC_FLAG)
: 2031      2107 2     STR_WILD - all users alphabetically (implies NOT UIC_FLAG)
: 2032      2108 2
: 2033      2109 2     RECBUF - The appropriate keys are initialized
: 2034      2110 2
: 2035      2111 2 ROUTINE VALUE:
: 2036      2112 2
: 2037      2113 2     If the syntax does not follow one of the six methods the routine
: 2038      2114 2     returns FALSE. The outputs are meaningful only when the value
: 2039      2115 2     returned is TRUE.
: 2040      2116 2
: 2041      2117 2 --
: 2042      2118 2
: 2043      2119 2
: 2044      2120 2 : Identify the next token in the command buffer.
: 2045      2121 2 :
: 2046      2122 2
: 2047      2123 2 if not cli$present (.desc_addr) or
: 2048      2124 2     not cli$get_value (.desc_addr, tokendsc) or
: 2049      2125 2     .tokenlen eql 0
: 2050      2126 2 then
: 2051      2127 2     if not .nulldefault
: 2052      2128 2     then
: 2053      2129 2         return LIB$SIGNAL(UAF$_NOUSERSPEC)
: 2054      2130 2     else
: 2055      2131 2         begin
```

```

: 2056      2132      3      uic_flag = false;
: 2057      2133      3      grp_wild = false;
: 2058      2134      3      mem_wild = false;
: 2059      2135      3      str_wild = true;
: 2060      2136      3      match_token = '*';
: 2061      2137      3      match_tokenlen = 1;
: 2062      2138      3      return true;
: 2063      2139      3      end
: 2064      2140      3      else
: 2065      2141      3      begin
: 2066      2142      3      tokenlen = .tokenlen;
: 2067      2143      3      tokenptr = .tokenptr;
: 2068      2144      3      end;
: 2069      2145      3
: 2070      2146      3
: 2071      2147      3      !
: 2072      2148      3      ! Decide whether a UIC or a Username form was used.
: 2073      2149      3      !
: 2074      2150      3
: 2075      2151      3      if .(.tokenptr)<0,8> eql '['
: 2076      2152      3      then
: 2077      2153      3      begin
: 2078      2154      3
: 2079      2155      3      if not parse_wild_uic ( .tokenlen, .tokenptr )
: 2080      2156      3      then
: 2081      2157      3      return LIB$SIGNAL 'UAF$_INVUSERSPEC, 2, .tokenlen, .tokenptr);
: 2082      2158      3
: 2083      2159      3      end
: 2084      2160      3      else
: 2085      2161      3      begin
: 2086      2162      3      uic_flag = false;
: 2087      2163      3      grp_wild = false;
: 2088      2164      3      mem_wild = false;
: 2089      2165      3
: 2090      2166      3      !
: 2091      2167      3      ! Decide whether or not the Username is wildcarded.
: 2092      2168      3      !
: 2093      2169      3
: 2094      2170      3      if not ch$fail (ch$find_ch (.tokenlen, .tokenptr, '*'))
: 2095      2171      3      or
: 2096      2172      3      not ch$fail (ch$find_ch (.tokenlen, .tokenptr, '%'))
: 2097      2173      3      !
: 2098      2174      3      ! OR
: 2099      2175      3      ! .by_account
: 2100      2176      3      then
: 2101      2177      3      begin
: 2102      2178      3      match_tokenlen = .tokenlen;
: 2103      2179      3      ch$move (.tokenlen, .tokenptr, match_token);
: 2104      2180      3      str_wild = true;
: 2105      2181      3      end
: 2106      2182      3      else
: 2107      2183      3      begin
: 2108      2184      3      str_wild = false;
: 2109      2185      3      ch$copy (.tokenlen, .tokenptr, %char (' '),
: 2110      2186      3      uaf$_username, recbuf[uaf$_username]);
: 2111      2187      3      end;
: 2112      2188      3      end;

```

: 2113
: 2114
2189 2 true
2190 1 end;

		OFFC	00000	.ENTRY	PARSE WILD, Save R2,R3,R4,R5,R6,R7,R8,R9,-			
	5B	00000000G	00	9E	00002	MOVAB	R10,RT1	
	5A	00000000G	00	9E	00009	MOVAB	UIC_FLAG, R11	
	59	00000000G	00	9E	00010	MOVAB	LIB\$SIGNAL, R10	
	58	00000000G	00	9E	00017	MOVAB	STR_WILD, R9	
		04	AC	DD	0001E	MOVAB	TOKENLEN, R8	
00000000G	00		01	FB	00021	PUSHL	DESC_ADDR	2123
	17		50	E9	00028	CALLS	#1, CLIS\$PRESENT	
		00000000G	00	9F	0002B	BLBC	R0, 1\$	
		04	AC	DD	00031	PUSHAB	TOKENDSC	2124
00000000G	00		02	FB	00034	PUSHL	DESC_ADDR	
	04		50	E9	0003B	CALLS	#2, CLIS\$GET_VALUE	
			68	B5	0003E	BLBC	R0, 1\$	
			2F	12	00040	TSTW	TOKENLEN	2125
	0A	08	AC	E8	00042	BNEQ	3\$	
		00000000G	8F	DD	00046	BLBS	NULLDEFAULT, 2\$	2127
	6A		01	FB	0004C	PUSHL	#UAF\$ NOUSERSPEC	2129
				04	0004F	CALLS	#1, LIB\$SIGNAL	
			6B	D4	00050	RET		2131
		00000000G	00	D4	00052	CLRL	UIC_FLAG	2132
		00000000G	00	D4	00058	CLRL	GRP_WILD	2133
	69		01	D0	0005E	CLRL	MEM_WILD	2134
00000000G	00		2A	D0	00061	MOVL	#1, STR_WILD	2135
00000000G	00		01	D0	00068	MOVL	#42, MATCH_TOKEN	2136
			79	11	0006F	MOVL	#1, MATCH_TOKENLEN	2137
	57		68	3C	00071	BRB	9\$	2138
	56	00000000G	00	D0	00074	MOVZWL	TOKENLEN, R7	2155
5B	8F		66	91	0007B	MOVL	TOKENPTR, R6	2151
			23	12	0007F	CMPB	(R6), #91	
			56	DD	00081	BNEQ	4\$	
			57	DD	00083	PUSHL	R6	2155
00000000V	00		02	FB	00085	PUSHL	R7	
	5B		50	E8	0008C	CALLS	#2, PARSE_WILD_UIC	
		00000000G	00	DD	0008F	BLBS	R0, 9\$	
	7E		68	3C	00095	PUSHL	TOKENPTR	2157
			02	DD	00098	MOVZWL	TOKENLEN, -(SP)	
		00000000G	8F	DD	0009A	PUSHL	#2	
	6A		04	FB	000A0	PUSHL	#UAF\$ INVUSERSPEC	
				04	000A3	CALLS	#4, LIB\$SIGNAL	
		00000000G	6B	D4	000A4	RET		2162
		00000000G	00	D4	000A6	CLRL	UIC_FLAG	2163
66	57		00	D4	000AC	CLRL	GRP_WILD	2164
			2A	3A	000B2	CLRL	MEM_WILD	2170
			02	12	000B6	LOCC	#42, R7, (R6)	
			51	D4	000B8	BNEQ	5\$	
			51	D5	000BA	CLRL	R1	
			0C	12	000BC	TSTL	R1	
66	57		25	3A	000BE	BNEQ	7\$	
			02	12	000C2	LOCC	#37, R7, (R6)	2172
						BNEQ	6\$	

UAFPARSE
V04-000

parse_wild - parse wildcarded user specificatio

H 15
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (20)

Page 79

			51	D4	000C4	CLRL	R1	:	
			51	D5	000C6	TSTL	R1	:	
			14	13	030C8	BEQL	8\$	:	
00000000G	00	00000000G	57	D0	000CA	7\$:	MOVL	R7, MATCH_TOKENLEN	2177
			57	28	000D1		MOVCS	R7, (R6), MATCH_TOKEN	2178
			01	D0	000D9		MOVL	#1, STR_WILD	2179
			0C	11	000DC		BRB	9\$	2170
			69	D4	000DE	8\$:	CLRL	STR_WILD	2183
20			57	2C	000E0		MOVCS	R7, (R6), #32, #32, RECBUF+4	2185
	20		00		000E5				
		00000000G	01	D0	000EA	9\$:	MOVL	#1, R0	2190
		50	04		000ED		RET		:

; Routine Size: 238 bytes, Routine Base: \$CODE\$ + 0EF8

```

: 2116      2191 1 %sbtll 'parse_wild_uic - parse wildcarded UIC'
: 2117      2192 1 global routine parse_wild_uic ( strlen, strptr ) =
: 2118      2193 2 begin
: 2119      2194 2
: 2120      2195 2 !++
: 2121      2196 2
: 2122      2197 2 . FUNCTIONAL DESCRIPTION:
: 2123      2198 2
: 2124      2199 2     Parse the uic methods by which User Author ation File
: 2125      2200 2     records may be specified. This routine defines boolean
: 2126      2201 2     variables for input to the WILD_USER routine.
: 2127      2202 2
: 2128      2203 2 INPUTS:
: 2129      2204 2
: 2130      2205 2     STRLEN - Length of UIC string
: 2131      2206 2     STRPTR - Address of UIC string
: 2132      2207 2
: 2133      2208 2 IMPLICIT INPUTS:
: 2134      2209 2
: 2135      2210 2
: 2136      2211 2 OUTPUTS:
: 2137      2212 2
: 2138      2213 2     True - success
: 2139      2214 2     False - failure
: 2140      2215 2
: 2141      2216 2 IMPLICIT OUTPUTS:
: 2142      2217 2
: 2143      2218 2     The following boolean variables are decided:
: 2144      2219 2
: 2145      2220 2     UIC_FLAG - UIC form (instead of username)
: 2146      2221 2     GRP_WILD - Group wild card (implies UIC_FLAG)
: 2147      2222 2     MEM_WILD - Member wild card (implies UIC_FLAG)
: 2148      2223 2     STR_WILD - all users alphabetically (implies NOT UIC_FLAG)
: 2149      2224 2
: 2150      2225 2     RECBUF - The appropriate keys are initialized
: 2151      2226 2
: 2152      2227 2 ROUTINE VALUE:
: 2153      2228 2
: 2154      2229 2     If the syntax does not follow one of the six methods the routine
: 2155      2230 2     returns FALSE. The outputs are meaningful only when the value
: 2156      2231 2     returned is TRUE.
: 2157      2232 2
: 2158      2233 2 --
: 2159      2234 2
: 2160      2235 2 uic_flag = true;
: 2161      2236 2 str_wild = false;
: 2162      2237 2
: 2163      2238 2
: 2164      2239 2 ! Crank UIC through tparse
: 2165      2240 2
: 2166      2241 2 tparse_block [tpa$l_stringcnt] = .strlen;
: 2167      2242 2 tparse_block [tpa$l_stringptr] = .strptr;
: 2168      2243 2
: 2169      2244 2 if not lib$tparse (tparse_block, uic_states, uic_keys)
: 2170      2245 2 then
: 2171      2246 2     return false ;
: 2172      2247 2
```

```
2173 2248 2 |
2174 2249 2 | Decide whether or not the Group subfield is wildcarded.
2175 2250 2 |
2176 2251 2 | if .converted_uic<16,16> eql uic$k_wild_group
2177 2252 2 | then
2178 2253 2 |     begin
2179 2254 2 |         grp_wild = true;
2180 2255 2 |         recBuf[uaf$w_grp] = 0;
2181 2256 2 |     end
2182 2257 2 |
2183 2258 2 | else
2184 2259 2 |     begin
2185 2260 2 |         grp_wild = false;
2186 2261 2 |         recBuf[uaf$w_grp] = .converted_uic<16,16>;
2187 2262 2 |     end;
2188 2263 2 |
2189 2264 2 |
2190 2265 2 | Decide whether or not the Member subfield is wildcarded.
2191 2266 2 |
2192 2267 2 |
2193 2268 2 | if .converted_uic<0,16> eql uic$k_wild_member
2194 2269 2 | then
2195 2270 2 |     begin
2196 2271 2 |         mem_wild = true;
2197 2272 2 |
2198 2273 2 |         | Whether it is wildcarded or not this subfield is initialized
2199 2274 2 |         | for the wildcard processor.
2200 2275 2 |         |
2201 2276 2 |         |
2202 2277 2 |         recBuf[uaf$w_mem] = 0;
2203 2278 2 |         end
2204 2279 2 |     else
2205 2280 2 |         begin
2206 2281 2 |         mem_wild = false;
2207 2282 2 |         recBuf[uaf$w_mem] = .converted_uic<0,16>;
2208 2283 2 |         end;
2209 2284 2 |
2210 2285 2 |
2211 2286 2 | return true ;
2212 2287 1 | end ;
```

```
00000000G 00 003C 00000
55 00000000G 00 9E 00002
54 00000000G 00 9E 00009
53 00000000G 00 9E 00010
52 00000000' 00 9E 00017
00000000G 00 01 D0 0001E
00000000G 00 D4 00025
E4 A2 04 AC 7D 0002B
00000000' 00 9F 00030
00000000' 00 9F 00036
DC A2 9F 0003C
00000000G 00 03 FB 0003F
```

```
.ENTRY PARSE WILD UIC, Save R2,R3,R4,R5
MOVAB MEM_WILD, R5
MOVAB GRP_WILD, R4
MOVAB RECBUF+38, R3
MOVAB CONVERTED_UIC, R2
MOVL #1, UIC_FLAG
CLRL STR_WILD
MOVQ STRLEN, TPARSE_BLOCK+8
PUSHAB UIC_KEYS
PUSHAB UIC_STATES
PUSHAB TPARSE_BLOCK
CALLS #3, LIB$TPARSE
```

```
: 2192
:
:
:
: 2235
: 2236
: 2241
: 2244
:
```

UAFPARSE
V04-000

parse_wild_uic - parse wildcarded UIC

K 15

16-Sep-1984 02:21:19

14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (21)

Page 82

	33		50	E9	00046	BLBC	RO, 5\$		
	50	02	A2	3C	00049	MOVZWL	CONVERTED UIC+2, RO	2251	
3FFF	8F		50	B1	0004D	CMPW	RO, #16383		
			07	12	00052	BNEQ	1\$		
	64		01	D0	00054	MOVL	#1, GRP_WILD	2254	
			63	B4	00057	CLRW	RECBUF+38	2255	
			05	11	00059	BRB	2\$	2251	
			64	D4	0005B	CLRL	GRP_WILD	2260	
	63		50	B0	0005D	MOVW	RO, -RECBUF+38	2261	
	50		62	3C	00060	MOVZWL	CONVERTED UIC, RO	2268	
FFFF	8F		50	B1	00063	CMPW	RO, #65535		
			08	12	00068	BNEQ	3\$		
	65		01	D0	0006A	MOVL	#1, MEM_WILD	2271	
		FE	A3	B4	0006D	CLRW	RECBUF+36	2278	
			06	11	00070	BRB	4\$	2268	
			65	D4	00072	CLRL	MEM_WILD	2282	
FE	A3		50	B0	00074	MOVW	RO, -RECBUF+36	2283	
	50		01	D0	00078	MOVL	#1, RO	2286	
				04	0007B	RET			
			50	D4	0007C	CLRL	RO	2287	
				04	0007E	RET			

; Routine Size: 127 bytes, Routine Base: \$CODE\$ + 0FE6

getstring - get string from input

```
2214 2288 1 %sbtll 'getstring - get string from input'
2215 2289 1 global routine getstring (addr, maxsize, type) =
2216 2290 2 begin
2217 2291 2
2218 2292 2 ++
2219 2293 2
2220 2294 2 FUNCTIONAL DESCRIPTION:
2221 2295 2
2222 2296 2 This routine reads a string variable and stores it as
2223 2297 2 a blank filled or counted string in the field supplied.
2224 2298 2 The first character is checked to see if it is a quote
2225 2299 2 or double quote and if so, a different terminator
2226 2300 2 set is used so that embedded blanks may be contained
2227 2301 2 in the string.
2228 2302 2
2229 2303 2 INPUTS:
2230 2304 2
2231 2305 2 ADDR - address to store string
2232 2306 2 MAXSIZE - size of field in which string will be stored.
2233 2307 2 If this is a counted string, the maximum input
2234 2308 2 acceptable is MAXSIZE - 1
2235 2309 2 TYPE - string type, either COUNTED_STRING or FILLED_STRING
2236 2310 2
2237 2311 2 IMPLICIT INPUTS:
2238 2312 2
2239 2313 2 none
2240 2314 2
2241 2315 2 OUTPUTS:
2242 2316 2
2243 2317 2 none
2244 2318 2
2245 2319 2 IMPLICIT OUTPUTS:
2246 2320 2
2247 2321 2 none
2248 2322 2
2249 2323 2 ROUTINE VALUE:
2250 2324 2
2251 2325 2 true -> string inserted successfully
2252 2326 2 false -> string too long
2253 2327 2
2254 2328 2 SIDE EFFECTS:
2255 2329 2
2256 2330 2 none
2257 2331 2 --
2258 2332 2
2259 2333 2
2260 2334 2 if .type eql counted_string
2261 2335 2 then
2262 2336 2 maxsize = .maxsize - 1;
2263 2337 2
2264 2338 2 if .tokenlen gtr .maxsize
2265 2339 2 then
2266 2340 2 return
2267 2341 2 LIB$SIGNAL(UAF$_INVSTR, 2, .tokenlen, .tokenptr);
2268 2342 2
2269 2343 2 if .type eql counted_string
2270 2344 2 then
```

getstring - get string from input

```
: 2271      2345 3      begin
: 2272      2346 3      (.addr)<0,8> = .tokenlen;
: 2273      2347 3      ch$copy (.tokenlen, .tokenptr, %char (blank),
: 2274      2348 3      .maxsize-1, .addr+1);
: 2275      2349 3      end
: 2276      2350 2      else
: 2277      2351 2      ch$copy (.tokenlen, .tokenptr, %char (blank),
: 2278      2352 2      .maxsize, .addr);
: 2279      2353 2      return true;
: 2280      2354 1      end;
```

				00FC 00000	.ENTRY GETSTRING, Save R2,R3,R4,R5,R6,R7		2289
		57	00000000G	00 9E 00002	MOVAB TOKENLEN, R7		
		56	00000000G	00 9E 00009	MOVAB TOKENPTR, R6		
				54 D4 00010	CLRL R4		2334
		01	0C	AC D1 00012	CMPL TYPE, #1		
				05 12 00016	BNEQ 1\$		
				54 D6 00018	INCL R4		
			08	AC D7 0001A	DECL MAXSIZE		2336
		50		67 3C 0001D	MOVZWL TOKENLEN, R0		2338
	08	AC		50 D1 00020	CMPL R0, MAXSIZE		
				14 15 00024	BLEQ 2\$		
				66 DD 00026	PUSHL TOKENPTR		2341
				50 DD 00028	PUSHL R0		
				02 DD 0002A	PUSHL #2		
			00000000G	8F DD 0002C	PUSHL #UAF\$ INVSTR		
			00	04 FB 00032	CALLS #4, LIB\$SIGNAL		
				04 00039	RET		
		50	04	AC D0 0003A	MOVL ADDR, R0		2346
		52		67 3C 0003E	MOVZWL TOKENLEN, R2		
		53		66 D0 00041	MOVL TOKENPTR, R3		2347
		11		54 E9 00044	BLBC R4, 3\$		
		60		52 90 00047	MOVB R2, (R0)		2346
	51	51	08	AC 01 C3 0004A	SUBL3 #1, MAXSIZE, R1		2348
		20		63 52 2C 0004F	MOVCS R2, (R3), #32, R1, 1(R0)		
				01 A0 00054			
				07 11 00056	BRB 4\$		2343
08	AC	20		63 52 2C 00058	MOVCS R2, (R3), #32, MAXSIZE, (R0)		2352
				60 0005E			
		50		01 D0 0005F	MOVL #1, R0		2353
				04 00062	RET		2354

; Routine Size: 99 bytes, Routine Base: \$CODE\$ + 1065

```
2282 2355 1 %sbttl 'getval - get numeric value from user'
2283 2356 1 global routine getval (addr, size) =
2284 2357 2 begin
2285 2358
2286 2359 2 ++
2287 2360 2
2288 2361 2 FUNCTIONAL DESCRIPTION:
2289 2362 2
2290 2363 2 Routine to return binary value for next ASCII decimal
2291 2364 2 number in the input stream.
2292 2365 2
2293 2366 2 INPUTS:
2294 2367 2
2295 2368 2 ADDR - address to return converted value
2296 2369 2 SIZE - size in bits of field in which to return value
2297 2370 2
2298 2371 2 IMPLICIT INPUTS:
2299 2372 2
2300 2373 2 NEXTTOKEN - contains address of delimiter preceeding the number
2301 2374 2
2302 2375 2 OUTPUTS:
2303 2376 2
2304 2377 2 field described by ADDR and SIZE receives binary value
2305 2378 2
2306 2379 2 IMPLICIT OUTPUTS:
2307 2380 2
2308 2381 2 none
2309 2382 2
2310 2383 2 ROUTINE VALUE:
2311 2384 2
2312 2385 2 true -> value converted successfully
2313 2386 2 false -> non-numeric character encountered before next
2314 2387 2 delimiter found
2315 2388 2
2316 2389 2 SIDE EFFECTS:
2317 2390 2
2318 2391 2 If error is encountered, an error message will be printed.
2319 2392 2
2320 2393 2 --
2321 2394 2
2322 2395 2 local
2323 2396 2 value;
2324 2397 2 ! for value returned
2325 2398 2 ! by CVTNUM routine
2326 2399 2
2327 2400 2 Check for no value supplied
2328 2401 2
2329 2402 2
2330 2403 2 if .tokenlen eql 0
2331 2404 2 then
2332 2405 2 return LIB$SIGNAL(UAF$_NOARG, 2, .tokenlen, .tokenptr);
2333 2406 2
2334 2407 2
2335 2408 2 Convert to decimal. Report error if any non-nums encountered.
2336 2409 2
2337 2410 2
2338 2411 2 if not cvtnum (.tokenlen, .tokenptr, 10, value)
```

getval - get numeric value from user

B 16
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (23) Page 86

```

2339 2412 2 then
2340 2413 2     return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
2341 2414 2
2342 2415 2
2343 2416 2     Check that the value supplied is within the size of
2344 2417 2     the field to be stored.
2345 2418 2
2346 2419 2
2347 2420 2 if .value<.size - 1, 32 - .size + 1> neq 0
2348 2421 2 then
2349 2422 2     return LIB$SIGNAL(UAF$_VALTOOBIG, 2, .tokenlen, .tokenptr);
2350 2423 2
2351 2424 2
2352 2425 2     Finally, store the value in field specified .
2353 2426 2
2354 2427 2
2355 2428 2 (.addr)<0, .size> = .value;
2356 2429 2
2357 2430 2 return true;
2358 2431 1 end;

```

				001C 00000	.ENTRY GETVAL, Save R2,R3,R4	2356
	54	00000000G	00	9E 00002	MOVAB TOKENLEN, R4	
	53	00000000G	00	9E 00009	MOVAB TOKENPTR, R3	
	5E		04	C2 00010	SUBL2 #4, SP	
	50		64	3C 00013	MOVZWL TOKENLEN, R0	2403
			0E	12 00016	BNEQ 1\$	
			63	DD 00018	PUSHL TOKENPTR	2405
			50	DD 0001A	PUSHL R0	
			02	DD 0001C	PUSHL #2	
		00000000G	8F	DD 0001E	PUSHL #UAF\$_NOARG	
			40	11 00024	BRB 3\$	
			5E	DD 00026	PUSHL SP	2411
			0A	DD 00028	PUSHL #10	
			63	DD 0002A	PUSHL TOKENPTR	
		00000000V	7E	00	MOVZWL TOKENLEN, -(SP)	
			0F	04	CALLS #4, CVTNUM	
			50	E8 00036	BLBS R0, 2\$	
			63	DD 00039	PUSHL TOKENPTR	2413
			7E	64	MOVZWL TOKENLEN, -(SP)	
			02	DD 0003E	PUSHL #2	
		00000000G	8F	DD 00040	PUSHL #UAF\$_BADVALUE	
			1E	11 00046	BRB 3\$	
	52	08	AC	01	SUBL3 #1, SIZE, R2	2420
	50		21	AC	SUBL3 SIZE, #33, R0	
51	6E		50	52	EXTZV R2, R0, VALUE, R1	
			15	13 00057	BEQL 4\$	
			63	DD 00059	PUSHL TOKENPTR	2422
			7E	64	MOVZWL TOKENLEN, -(SP)	
			02	DD 0005E	PUSHL #2	
		00000000G	8F	DD 00060	PUSHL #UAF\$_VALTOOBIG	
			04	FB 00066	CALLS #4, LIB\$SIGNAL	
			04	0006D	RET	

UAFPARSE
V04-000

getval - get numeric value from user

C 16
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (23)

Page 87

04	BC	08	AC	00	6E	F0	0006E	4\$:	INSV	VALUE, #0, SIZE, @ADDR	:	2428
		50		01	D0	00075			MOVL	#1, R0	:	2430
					04	00078			RET		:	2431

; Routine Size: 121 bytes, Routine Base: \$CODE\$ + 10C8

cvtnum - convert decimal ascii to binary

```
2360 2432 1 %sbttl 'cvtnum - convert decimal ascii to binary'
2361 2433 1 routine cvtnum (size, adr, radix, valadr) =
2362 2434 2 begin
2363 2435 2
2364 2436 2 ++
2365 2437 2
2366 2438 2 FUNCTIONAL DESCRPTION:
2367 2439 2
2368 2440 2 Routine to convert ascii digits to binary.
2369 2441 2
2370 2442 2 INPUTS:
2371 2443 2
2372 2444 2 SIZE - number of digits in input buffer
2373 2445 2 ADR - address of the buffer containing ascii digits
2374 2446 2 RADIX - radix of number to be converted
2375 2447 2 VALADR - address of longword to receive converted value
2376 2448 2
2377 2449 2 IMPLICIT INPUTS:
2378 2450 2
2379 2451 2 none
2380 2452 2
2381 2453 2 OUTPUTS:
2382 2454 2
2383 2455 2 longword pointed to by VALADR receives converted value
2384 2456 2
2385 2457 2 IMPLICIT OUTPUTS:
2386 2458 2
2387 2459 2 none
2388 2460 2
2389 2461 2 ROUTINE VALUE:
2390 2462 2
2391 2463 2 true -> value successfully converted
2392 2464 2 false -> non-numeric encountered before end of string
2393 2465 2
2394 2466 2 SIDE EFFECTS:
2395 2467 2
2396 2468 2 none
2397 2469 2 --
2398 2470 2
2399 2471 2 bind
2400 2472 2 sum = .valadr; ! address ref scaler
2401 2473 2
2402 2474 2
2403 2475 2 sum = 0;
2404 2476 2
2405 2477 2 !
2406 2478 2 ! Loop thorough buffer. Stop on end of string or non-decimal digit.
2407 2479 2 !
2408 2480 2
2409 2481 2 incr i from .adr to (.adr + .size - 1)
2410 2482 2 do
2411 2483 2 begin
2412 2484 2 local
2413 2485 2 digit,
2414 2486 2 pointer;
2415 2487 2
2416 2488 2 digit = .(i)<0,8>;
```

```

2489 3
2490 3
2491 3      | Check validity of digit depending on radix
2492 3      |
2493 3
2494 3
2495 3      if ch$fail (pointer = ch$find_ch (.radix, number)
2496 3      then
2497 3          return false
2498 3      else
2499 4          sum = (.sum*.radix) + (.pointer - numbers)
2500 2      end;
2501 2
2502 2      return true;
2503 1      end;

```

```
; Routine Size: 69 bytes,    Routine Base: $CODES + 1141
```

```

: 2433 2504 1 %sbttl 'PASSWORD MACROS -- for N-ary passwords'
: 2434 2505 1
: 2435 2506 1 !++
: 2436 2507 1
: 2437 2508 1 FUNCTIONAL DESCRIPTION:
: 2438 2509 1
: 2439 2510 1 These macros and the routines that follow allow for
: 2440 2511 1 the use of any number of passwords. At the time of
: 2441 2512 1 this writing, only two (primary and secondary) pass-
: 2442 2513 1 words were in effect. When a change is made to the
: 2443 2514 1 number of passwords, it will be necessary, only, to
: 2444 2515 1 update the argument list macros below.
: 2445 2516 1
: 2446 2517 1 ---
: 2447 2518 1
: 2448 2519 1 macro
: 2449 2520 1
: 2450 2521 1 $NARY_LIST = 'PRIMARY', ',', 'SECONDARY', '2' %;
: 2451 2522 1 $N_LIST = '1', '2' %;
: 2452 2523 1
: 2453 2524 1 !
: 2454 2525 1 The remainder of the text will need no modification for N-ary passwords
: 2455 2526 1
: 2456 2527 1
: 2457 2528 1 macro $PASSWORD(n) = %name('PASSWORD_',n) %;
: 2458 2529 1 macro $PRESENT(n) = %name('PRESENT_',n) %;
: 2459 2530 1
: 2460 M 2531 1 macro OWN_PASSWORD[n] =
: 2461 M 2532 1 own $PASSWORD(n): block[DSC$K_D_BLN, byte]
: 2462 2533 1 preset([DSC$B_CLASS] = DSC$K_CLASS_n); %;
: 2463 2534 1
: 2464 2535 1 OWN_PASSWORD($N_LIST);

```

```
2466 2536 1 %sbttl 'UAF$GENERATE -- Generate random passwords'
2467 2537 1 routine UAF$GENERATE =
2468 2538 2 begin
2469 2539 2
2470 2540 2 !++
2471 2541 2
2472 2542 2 FUNCTIONAL DESCRIPTION:
2473 2543 2
2474 2544 2     Decide which passwords to generate
2475 2545 2
2476 2546 2 INPUTS:
2477 2547 2
2478 2548 2     none
2479 2549 2
2480 2550 2 IMPLICIT INPUTS:
2481 2551 2
2482 2552 2     CLISGET_VALUE(%ascid'GENERATE_PASSWORD')
2483 2553 2
2484 2554 2 OUTPUTS:
2485 2555 2
2486 2556 2     none
2487 2557 2
2488 2558 2 IMPLICIT OUTPUTS:
2489 2559 2
2490 2560 2     Places new values in $PASSWORD(n)'s
2491 2561 2
2492 2562 2 ROUTINE VALUE:
2493 2563 2
2494 2564 2     none
2495 2565 2
2496 2566 2 SIDE EFFECTS:
2497 2567 2
2498 2568 2     none
2499 2569 2
2500 2570 2 !--
2501 2571 2
2502 2572 2     own WHICH: block[DSC$K_D_BLN, byte] preset([DSC$B_CLASS] = DSC$K_CLASS_D);
2503 2573 2
2504 M 2574 2     macro ACTIVE_PASSWORD(n) =
2505 2575 2         ch$neg(%name('UAF$S_PWD',n), RECBUF[%name('UAF$Q_PWD',n)], 0, 0, 0) %;
2506 M 2576 2     macro WHICH_EQL[THIS] =
2507 M 2577 2         ch$eq(%WHICH[DSC$W_LENGTH], %WHICH[DSC$A_POINTER],
2508 2578 2             %charcount(THIS), uplit(%ascii %string(THIS))) %;
2509 M 2579 2     macro GENERATE_NEW_PASSWORD[THIS, n] =
2510 M 2580 2         if (ACTIVE_PASSWORD(n) and (FALSE or WHICH_EQL('CURRENT')))
2511 M 2581 2         or WHICH_EQL(THIS, 'BOTH', 'ALL') then
2512 M 2582 2             AUTHORIZE_GENERATE($PASSWORD(n), uplit(%ascii THIS), %charcount(THIS))
2513 M 2583 2         else
2514 2584 2             $PASSWORD(n)[DSC$W_LENGTH] = 0; %;
2515 2585 2
2516 2586 2     CLISGET_VALUE(%ascid'GENERATE_PASSWORD', WHICH);
2517 2587 2     GENERATE_NEW_PASSWORD($NARY_LIST);
2518 2588 2
2519 2589 2     return TRUE;
2520 2590 2
2521 2591 1 end;
```

```
.PSECT $SPLITS$,NOWRT,NOEXE,2
4F 57 53 53 41 50 5F 45 54 41 52 45 4E 45 47 004D0 P.AFH: .ASCII \GENERATE_PASSWORD\<0><0><0>
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 004DF
010E0011 004E4 P.AFG: .LONG 17694737
00000000 004E8 .ADDRESS P.AFH
00 54 4E 45 52 52 55 43 004EC P.AFI: .ASCII \CURRENT\<0>
00 59 52 41 4D 49 52 50 004F4 P.AFJ: .ASCII \PRIMARY\<0>
48 54 4F 42 004FC P.AFK: .ASCII \BOTH\
00 59 52 41 4D 49 52 50 00500 P.AFL: .ASCII \ALL\<0>
00 54 4E 45 52 52 55 43 00504 P.AFM: .ASCII \PRIMARY\<0>
00 54 4E 45 52 52 55 43 0050C P.AFN: .ASCII \CURRENT\<0>
00 00 00 59 52 41 44 4E 4F 43 45 53 00514 P.AFO: .ASCII \SECONDARY\<0><0><0>
48 54 4F 42 00520 P.AFP: .ASCII \BOTH\
00 4C 4C 41 00524 P.AFQ: .ASCII \ALL\<0>
00 00 00 59 52 41 44 4E 4F 43 45 53 00528 P.AFR: .ASCII \SECONDARY\<0><0><0>

.PSECT $OWNS$,NOEXE,2
00# 0010C PASSWORD:
02 0010F .BYTE 0[3]
00110 .BYTE 2
00# 00114 PASSWORD:
02 00117 .BYTE 0[3]
00118 .BYTE 2
00# 0011C WHICH: .BLKB 4
02 0011F .BYTE 0[3]
00120 .BLKB 2

.PSECT $CODE$,NOWRT,2
007C 00000 UAF$GENERATE:
56 00000000V 00 9E 00002 .WORD Save R2,R3,R4,R5,R6
55 00000000V 00 9E 00009 MOVAB AUTHORIZE_GENERATE, R6
54 00000000V 00 9E 00010 MOVAB P.AFG, R5
54 00000000V 00 9E 00010 MOVAB WHICH, R4
54 DD 00017 PUSHL R4
55 DD 00019 PUSHL R5
02 FB 0001B CALLS #2, CLISGET_VALUE
08 2D 00022 CMPC5 #8, RECBUF+340, #0, #0, @#^X00000000
9F 0002B
0D 13 00030 BEQL 1$
50 04 A4 D0 00032 MOVL WHICH+4, R0
07 00 60 64 2D 00036 CMPC5 WHICH, (R0), #0, #7, P.AFI
08 A5 0003B
27 13 0003D BEQL 2$
50 04 A4 D0 0003F 1$: MOVL WHICH+4, R0
07 00 60 64 2D 00043 CMPC5 WHICH, (R0), #0, #7, P.AFJ
10 A5 00048
1A 13 0004A BEQL 2$
50 04 A4 D0 0004C MOVL WHICH+4, R0
```

UAFPARSE
V04-000

UAF\$GENERATE -- Generate random passwords

I 16
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (26) Page 93

04	00	60	18	64	2D	00050	CMP [^] S	WHICH, (R0), #0, #4, P.AFK
				A5		00055		
		50	04	0D	13	00057	BEQL	2\$
03	00	60		A4	D0	00059	MOVL	WHICH+4, R0
			1C	64	2D	0005D	CMPCS	WHICH, (R0), #0, #3, P.AFL
				A5		00062		
				0D	12	00064	BNEQ	3\$
				07	DD	00066	PUSHL	#7
			20	A5	9F	00068	PUSHAB	P.AFM
			F0	A4	9F	0006B	PUSHAB	PASSWORD
		66		03	FB	0006E	CALLS	#3, AUTH ^U RIZE_GENERATE
				03	11	00071	BRB	4\$
			F0	A4	B4	00073	CLRW	PASSWORD
00	00 00000000G	00		08	2D	00076	CMPCS	#8, RECB ^U F+348, #0, #0, @#^X00000000
		00000000		9F		0007F		
				0D	13	00084	BEQL	5\$
		50	04	A4	D0	00086	MOVL	WHICH+4, R0
07	00	60		64	2D	0008A	CMPCS	WHICH, (R0), #0, #7, P.AFN
			28	A5		0008F		
				27	13	00091	BEQL	6\$
		50	04	A4	D0	00093	MOVL	WHICH+4, R0
09	00	60		64	2D	00097	CMPCS	WHICH, (R0), #0, #9, P.AFO
			30	A5		0009C		
				1A	13	0009E	BEQL	6\$
		50	04	A4	D0	000A0	MOVL	WHICH+4, R0
04	00	60		64	2D	000A4	CMPCS	WHICH, (R0), #0, #4, P.AFP
			3C	A5		000A9		
				0D	13	000AB	BEQL	6\$
		50	04	A4	D0	000AD	MOVL	WHICH+4, R0
03	00	60		64	2D	000B1	CMPCS	WHICH, (R0), #0, #3, P.AFQ
			40	A5		000B6		
				0D	12	000B8	BNEQ	7\$
				09	DD	000BA	PUSHL	#9
			44	A5	9F	000BC	PUSHAB	P.AFR
			F8	A4	9F	000BF	PUSHAB	PASSWORD_2
		66		03	FB	000C2	CALLS	#3, AUTH ^U RIZE_GENERATE
				03	11	000C5	BRB	8\$
			F8	A4	B4	000C7	CLRW	PASSWORD_2
		50		01	D0	000CA	MOVL	#1, R0
				04		000CD	RET	

; Routine Size: 206 bytes, Routine Base: \$CODE\$ + 1186

2589
2591

```

: 2523      2592 1 %sbttl 'GETPASSWORD - get user password'
: 2524      2593 1 routine GETPASSWORD =
: 2525      2594 2 begin
: 2526      2595 2
: 2527      2596 2 ++
: 2528      2597 2
: 2529      2598 2 FUNCTIONAL DESCRIPTION:
: 2530      2599 2
: 2531      2600 2 Action routine to process password.
: 2532      2601 2
: 2533      2602 2 INPUTS:
: 2534      2603 2
: 2535      2604 2 none
: 2536      2605 2
: 2537      2606 2 IMPLICIT INPUTS:
: 2538      2607 2
: 2539      2608 2 none
: 2540      2609 2
: 2541      2610 2 OUTPUTS:
: 2542      2611 2
: 2543      2612 2 none
: 2544      2613 2
: 2545      2614 2 IMPLICIT OUTPUTS:
: 2546      2615 2
: 2547      2616 2 sets hashed password field in recbuf
: 2548      2617 2
: 2549      2618 2 ROUTINE VALUE:
: 2550      2619 2
: 2551      2620 2 true -> success
: 2552      2621 2 false -> failure
: 2553      2622 2
: 2554      2623 2 SIDE EFFECTS:
: 2555      2624 2
: 2556      2625 2 none
: 2557      2626 2 --
: 2558      2627 2
: 2559      2628 2 own
: 2560      2629 2
: 2561      2630 2 USER_DSC: $bblock[8],
: 2562      2631 2 REC_ENCRYPT_DSC: $bblock[8];
: 2563      2632 2
: 2564      M 2633 2 macro LOCAL_PRESENT[n] =
: 2565      2634 2 local $PRESENT(n): initial(TRUE); %;
: 2566      2635 2
: 2567      2636 2 LOCAL_PRESENT($N_LIST);
: 2568      2637 2
: 2569      2638 2
: 2570      2639 2 What are the passwords ???
: 2571      2640 2
: 2572      2641 2
: 2573      2642 2 if CL$PRESENT(SD_PASSWORD) eql CL$NEGATED then
: 2574      2643 2 begin
: 2575      2644 2 macro BLANK_PASSWORD[n] = $PRESENT(n) = FALSE; %;
: 2576      2645 2 BLANK_PASSWORD($N_LIST);
: 2577      2646 2 end
: 2578      2647 2 else if CL$PRESENT(SD_PASSWORD) then
: 2579      2648 2 begin

```


GETPASSWORD - get user password

```

: 2580      M 2649      3      macro GET_PASSWORD[n] =
: 2581      M 2650      3      $PASSWORD(n)[DSC$W_LENGTH] = 0;
: 2582      M 2651      3      $PASSWORD(n)[DSC$A_POINTER] = 0;
: 2583      M 2652      3      $PRESENT(n) = CLISGET_VALUE(SD_PASSWORD, $PASSWORD(n)); %;
: 2584      M 2653      3      GET_PASSWORD($N_LIST);
: 2585      M 2654      3      end;
: 2586      M 2655      3
: 2587      M 2656      3      :
: 2588      M 2657      3      When is it being changed ???
: 2589      M 2658      3      :
: 2590      M 2659      3
: 2591      M 2660      3      $GETTIM(timadr=TIME_BUF);
: 2592      M 2661      3
: 2593      M 2662      3      :
: 2594      M 2663      3      If this is a new password ...
: 2595      M 2664      3
: 2596      M 2665      3
: 2597      M 2666      3      if .RECBUF[UAF$W_SALT] eql 0 then
: 2598      M 2667      3      RECBUF[UAF$W_SALT] = .TIME_BUF<3*8,16>;
: 2599      M 2668      3
: 2600      M 2669      3      :
: 2601      M 2670      3      Find the length of the username
: 2602      M 2671      3      :
: 2603      M 2672      3
: 2604      M 2673      3      begin
: 2605      M 2674      3
: 2606      M 2675      3      builtin LOCC;
: 2607      M 2676      3      builtin R0;
: 2608      M 2677      3      LOCC(%ref(%char(BLANK)), %ref(UAF$S_USERNAME), RECBUF[UAF$T_USERNAME]);
: 2609      M 2678      3      USER_DSC[DSC$W_LENGTH] = UAF$S_USERNAME - .R0;
: 2610      M 2679      3      USER_DSC[DSC$A_POINTER] = RECBUF[UAF$T_USERNAME];
: 2611      M 2680      3
: 2612      M 2681      3      end;
: 2613      M 2682      3
: 2614      M 2683      3      :
: 2615      M 2684      3      Check the new passwords for syntax
: 2616      M 2685      3
: 2617      M 2686      3
: 2618      M 2687      3      begin
: 2619      M 2688      3
: 2620      M 2689      3      macro CHECK_PASSWORD[n] =
: 2621      M 2690      3
: 2622      M 2691      3      if .$PASSWORD(n)[DSC$W_LENGTH] gtru 31 then
: 2623      M 2692      3      return LIB$SIGNAL(UAF$ PWDSYNTAX);
: 2624      M 2693      3      incr COUNTER to .$PASSWORD(n)[DSC$W_LENGTH]-1 do
: 2625      M 2694      3      if ch$fail( ch$find ch(.SYMBOL_STR<0,8>, SYMBOL_STR+1,
: 2626      M 2695      3      .vector[.$PASSWORD(n)[DSC$A_POINTER],
: 2627      M 2696      3      .COUNTER;, byte)) )
: 2628      M 2697      3      then
: 2629      M 2698      3      return LIB$SIGNAL(UAF$ PWDSYNTAX); %;
: 2630      M 2699      3
: 2631      M 2700      3      CHECK_PASSWORD($N_LIST);
: 2632      M 2701      3
: 2633      M 2702      3      end;
: 2634      M 2703      3
: 2635      M 2704      3      :
: 2636      M 2705      3      Modify the passwords
```

```

: 2637      2706 2 !
: 2638      2707 2
: 2639      2708 2
: 2640      2709 2
: 2641      2710 2
: 2642      2711 2
: 2643      2712 2
: 2644      2713 2
: 2645      2714 2
: 2646      2715 2
: 2647      2716 2
: 2648      2717 2
: 2649      2718 2
: 2650      2719 2
: 2651      2720 2
: 2652      2721 2
: 2653      2722 2
: 2654      2723 2
: 2655      2724 2
: 2656      2725 2
: 2657      2726 2
: 2658      2727 2
: 2659      2728 2
: 2660      2729 2
: 2661      2730 2
: 2662      2731 2
: 2663      2732 2
: 2664      2733 2
: 2665      2734 2
: 2666      2735 2
: 2667      2736 2
: 2668      2737 2
: 2669      2738 2
: 2670      2739 2
: 2671      2740 2
: 2672      2741 2
: 2673      2742 2
: 2674      2743 2
: 2675      2744 2
: 2676      2745 2
: 2677      2746 2
: 2678      2747 2
: 2679      2748 2
: 2680      2749 2
: 2681      2750 1

```

```

begin
    macro MODIFY_PASSWORD[n] =
        if not .SPRESENT(n) then
            begin ! Blank out the current values
                ch$fill(0, %name('UAF$S_PWD',n), RECBUF[%name('UAF$Q_PWD',n)]);
                ch$fill(0, %name('UAF$S_PWD',n,'_DATE'),
                    RECBUF[%name('UAF$Q_PWD',n,'_DATE')]);
                RECBUF[%name('UAF$V_PWD',n,'_EXPIRED')] = FALSE;
                PWD_FLAG = FALSE;
            end
        else if .SPASSWORD(n)[DSC$W_LENGTH] neq 0 then
            begin ! Encrypt the new values
                RECBUF[%name('UAF$B_ENCRYPT',n)] = ENCRYPT:
                REC_ENCRYPT_DSC[DSC$W_LENGTH] = %name('UAF$S_PWD',n):
                REC_ENCRYPT_DSC[DSC$A_POINTER] = RECBUF[%name('UAF$Q_PWD',n)]:
                PWD_FLAG = FALSE;
                LGISHPWD(REC_ENCRYPT_DSC, $PASSWORD(n),
                    .RECBUF[%name('UAF$B_ENCRYPT',n)], .RECBUF[UAF$W_SALT],
                    user_dsc):
                ch$move( %name('UAF$S_PWD',n,'_DATE'), TIME_BUF,
                    RECBUF[%name('UAF$Q_PWD',n,'_DATE')]);
            end; %;
        MODIFY_PASSWORD($N_LIST);
    end;

    That's all folks ...

    return TRUE;
end;

```

.PSECT \$OWNS,NOEXE,2

00124 USER_DSC:

.BLKB 8

0012C REC_ENCRYPT_DSC:

.BLKB 8

.EXTRN SYSSGETTIM

.PSECT \$CODE\$,NOWRT,2

				OFFC 00000	GETPASSWORD:			
		5B	00000000G	00	9E 00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	2593
		5A	00000000G	00	9E 00009	MOVAB	PWD FLAG, R11	
		59	00000000G	00	9E 00010	MOVAB	SYMBOL STR, R10	
		58	00000000G	00	9E 00017	MOVAB	TIME BUF, R9	
		57	00000000'	00	9E 0001E	MOVAB	RECBUF+358, R8	
		54		01	D0 00025	MOVL	PASSWORD, R7	
		56		01	D0 00028	MOVL	#1, PRESENT	2594
			00000000'	00	9F 0002B	MOVL	#1, PRESENT_2	
				01	FB 00031	PUSHAB	SD_PASSWORD	2642
	00000000G	00		50	D1 00038	CALLS	#1, CLIS\$PRESENT	
	00000000G	8F		06	12 0003F	CMPL	R0, #CLIS\$_NEGATED	
				54	D4 00041	BNEQ	1\$	
				56	D4 00043	CLRL	PRESENT	2645
				40	11 00045	CLRL	PRESENT_2	
			00000000'	00	9F 00047	BRB	2\$	2642
	00000000G	00		01	FB 0004D	PUSHAB	SD_PASSWORD	2647
		30		50	E9 00054	CALLS	#1, CLIS\$PRESENT	
			04	67	B4 00057	BLBC	R0, 2\$	
				57	D4 00059	CLRW	PASSWORD	2653
				57	DD 0005C	CLRL	PASSWORD_+4	
			00000000'	00	9F 0005E	PUSHL	R7	
	00000000G	00		02	FB 00064	PUSHAB	SD_PASSWORD	
		54		50	D0 0006B	CALLS	#2, CLIS\$GET_VALUE	
			08	A7	B4 0006E	MOVL	R0, PRESENT_	
			0C	A7	D4 00071	CLRW	PASSWORD_2	
			08	A7	9F 00074	CLRL	PASSWORD_2+4	
			00000000'	00	9F 00077	PUSHAB	PASSWORD_2	
	00000000G	00		02	FB 0007D	PUSHAB	SD_PASSWORD	
		56		50	D0 00084	CALLS	#2, CLIS\$GET_VALUE	
				59	DD 00087	MOVL	R0, PRESENT_2	
	00000000G	00		01	FB 00089	PUSHL	R9	2660
				68	B5 00090	CALLS	#1, SYSS\$GETTIM	
				04	12 00092	TSTW	RECBUF+358	2666
		68	03	A9	B0 00094	BNEQ	3\$	
		20		20	3A 00098	MOVW	TIME_BUF+3, RECBUF+358	2667
FE9E	C8			50	A3 0009E	LOCC	#32, #32, RECBUF+4	2677
18	A7			67	B1 000A9	SUBW3	R0, #32, USER_DSC	2678
		1C		45	1A 000AC	MOVAB	RECBUF+4, USER_DSC+4	2679
			FE9E	67	B1 000A9	CMPW	PASSWORD_, #31	2700
				67	3C 000AE	BGTRU	9\$	
				01	CE 000B1	MOVZWL	PASSWORD, R3	
				15	11 000B4	MNEGL	#1, COUNTER	
				6A	9A 000B6	BRB	6\$	
		51		A7	D0 000B9	MOVZBL	SYMBOL STR, R1	
		50	04	62	3A 000BD	MOVL	PASSWORD_+4, R0	
01	AA	51		02	12 000C3	LOCC	(COUNTER)[R0], R1, SYMBOL_STR+1	
				51	D4 000C5	BNEQ	5\$	
				51	D5 000C7	CLRL	R1	
				28	13 000C9	TSTL	R1	
				53	F2 000CB	BEQL	9\$	
	E7	52		A7	B1 000CF	AOBLSS	R3, COUNTER, 4\$	
		1F	08	1E	1A 000D3	CMPW	PASSWORD_2, #31	
				A7	3C 000D5	BGTRU	9\$	
		53	08			MOVZWL	PASSWORD_2, R3	

GETPASSWORD - get user password

B 1
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (27)

		52		01	CE	00009	MNEGL	#1, COUNTER	
				23	11	000DC	BRB	10\$	
		51		6A	9A	000DE	MOVZBL	SYMBOL_STR, R1	
		50		A7	D0	000E1	MOVL	PASSWORD_2+4, R0	
	01	AA		51	3A	000E5	LOCC	(COUNTER)[R0], R1, SYMBOL_STR+1	
				02	12	000EB	BNEQ	8\$	
				51	D4	000ED	CLRL	R1	
				51	D5	000EF	TSTL	R1	
				0E	12	000F1	BNEQ	10\$	
		00000000G	00	8F	DD	000F3	PUSHL	#UAF\$ PWDSYNTAX	
				01	FB	000F9	CALLS	#1, LTB\$SIGNAL	
					04	00100	RET		
	D9			53	F2	00101	AOBLSS	R3, COUNTER, 7\$	
08				54	E8	00105	BLBS	PRESENT, 11\$	
	00			00	2C	00108	MOVCS	#0, (SPT), #0, #8, RECBUF+340	2740
08				A8		0010D			
	00			00	2C	0010F	MOVCS	#0, (SP), #0, #8, RECBUF+380	
				A8		00114			
		6F		02	8A	00116	BICB2	#2, RECBUF+469	
				6B	D4	0011A	CLRL	PWD_FLAG	
				2F	11	0011C	BRB	12\$	
				67	B5	0011E	TSTW	PASSWORD_	
				2B	13	00120	BEQL	12\$	
		02	A8	00G	8F	90	MOVCS	#ENCRYPT, RECBUF+360	
		20	A7		08	B0	MOVW	#8, REC_ENCRYPT_DSC	
		24	A7		A3	9E	MOVAB	RECBUF+340, REC_ENCRYPT_DSC+4	
					6B	D4	CLRL	PWD_FLAG	
				18	A7	9F	PUSHAB	USER_DSC	
					68	3C	MOVZWL	RECBUF+358, -(SP)	
		7E			A8	9A	MOVZBL	RECBUF+360, -(SP)	
		7E			57	DD	PUSHL	R7	
				20	A7	9F	PUSHAB	REC_ENCRYPT_DSC	
		00000000G	00		05	FB	CALLS	#5, LG\$HPWD	
	16	A8			08	28	MOVCS	#8, TIME_BUF, RECBUF+380	
					56	E8	BLBS	PRESENT_2, 13\$	
08					00	2C	MOVCS	#0, (SPT), #0, #8, RECBUF+348	
	00				A8				
08					00	2C	MOVCS	#0, (SP), #0, #8, RECBUF+388	
	00				A8				
					04	8A	BICB2	#4, RECBUF+469	
		6F			6B	D4	CLRL	PWD_FLAG	
					31	11	BRB	14\$	
				08	A7	B5	TSTW	PASSWORD_2	
					2C	13	BEQL	14\$	
		03	A8	00G	8F	90	MOVCS	#ENCRYPT, RECBUF+361	
		20	A7		08	B0	MOVW	#8, REC_ENCRYPT_DSC	
		24	A7		A8	9E	MOVAB	RECBUF+348, REC_ENCRYPT_DSC+4	
					6B	D4	CLRL	PWD_FLAG	
				18	A7	9F	PUSHAB	USER_DSC	
					68	3C	MOVZWL	RECBUF+358, -(SP)	
		7E			A8	9A	MOVZBL	RECBUF+361, -(SP)	
		7E			A7	9F	PUSHAB	PASSWORD_2	
				03	A7	9F	PUSHAB	REC_ENCRYPT_DSC	
				08	A7	9F	CALLS	#5, LG\$HPWD	
		00000000G	00		05	FB	MOVCS	#8, TIME_BUF, RECBUF+388	
1E	A8				08	28	MOVL	#1, R0	2748
					01	D0	RET		2750
					04	0019A			

UAFPARSE
V04-000

GETPASSWORD - get user password

C 1
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (27) Page 99

; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 1254

Sy
--
LI
PR
SA
SY
SY
SY
SY
SY
SY
SY
SY
SY
SY

```
2683 2751 1 %sbttl 'AUTHORIZE_GENERATE -- Interface to PL/I GENERATE PASSWORDS routine'
2684 2752 1 routine AUTHORIZE_GENERATE( NEW_PASSWORD: ref block[DSC$R_D_BLN, byte],
2685 2753 1 THIS, TLENGTH ) =
2686 2754 2 begin
2687 2755 2
2688 2756 2 ++
2689 2757 2
2690 2758 2 FUNCTIONAL DESCRIPTION:
2691 2759 2
2692 2760 2 Interface to PL/I procedure GENERATE_PASSWORD, which
2693 2761 2 generates random, pronounceable passwords. This routine
2694 2762 2 must prompt the user for input with NOECHO in effect
2695 2763 2
2696 2764 2 INPUTS:
2697 2765 2
2698 2766 2 None
2699 2767 2
2700 2768 2 IMPLICIT INPUTS:
2701 2769 2
2702 2770 2 Input from user terminal.
2703 2771 2
2704 2772 2 OUTPUTS:
2705 2773 2
2706 2774 2 PASSWORD, by descriptor.
2707 2775 2
2708 2776 2 IMPLICIT OUTPUTS:
2709 2777 2
2710 2778 2 User prompt.
2711 2779 2
2712 2780 2 ROUTINE VALUE:
2713 2781 2
2714 2782 2 None
2715 2783 2
2716 2784 2 NOTE:
2717 2785 2
2718 2786 2 PL/I apparently uses a form of ASCII to represent its strings,
2719 2787 2 however, PL/I uses a word for the character count, not a byte.
2720 2788 2
2721 2789 2 --
2722 2790 2
2723 2791 2 macro
2724 2792 2
2725 2793 2 DSC$L_L1 = 24, 0, 32, 0 %;
2726 2794 2 DSC$L_U1 = 28, 0, 32, 0 %;
2727 2795 2
2728 2796 2 literal
2729 2797 2
2730 2798 2 MAX = 10,
2731 2799 2 MIN = 6,
2732 2800 2 N_WORDS = 5;
2733 2801 2
2734 2802 2 own
2735 2803 2
2736 2804 2 CHANNEL,
2737 2805 2 DSC: block[DSC$K_S_BLN, byte] preset([DSC$B_CLASS]=DSC$K_CLASS_S),
2738 2806 2 FUNCTION: initial([IOS_READPROMPT or IOSM_CVTLOW or IOSM_NOECHO],
2739 2807 2 PLENGTH,
```

```
2740 2808 2      PROMPT: vector[45, byte] preset([0]=13, [1]=10,  
2741 2809 2      [2]='E', [3]='n', [4]='t', [5]='e', [6]='r', [7]=' ').  
2742 2810 2  
2743 2811 2      bind  
2744 2812 2  
2745 2813 2      P2 = UPLIT(' password: ');  
2746 2814 2  
2747 2815 2  
2748 2816 2      The password generator requires a complex descriptor  
2749 2817 2  
2750 2818 2  
2751 2819 2      macro PLISVARYING_CHARACTER_ARRAY[NAME, LENGTH, WIDTH] =  
2752 2820 2  
2753 2821 2      own  
2754 2822 2  
2755 2823 2      %name(NAME): blockvector[LENGTH, (WIDTH+2), byte],  
2756 2824 2      %name(NAME, 'DSC'): block[32, byte]  
2757 2825 2      preset([DSC$W_MAXSTRLEN] = WIDTH,  
2758 2826 2      [DSC$B_DTYPE] = 37,  
2759 2827 2      [DSC$B_CLASS] = DSC$K_CLASS_VSA,  
2760 2828 2      [DSC$A_POINTER] = %name(NAME),  
2761 2829 2      [DSC$B_DIMCT] = 1,  
2762 2830 2      [DSC$A_A0] = %name(NAME) - (WIDTH+2),  
2763 2831 2      [DSC$L_S1] = (WIDTH+2),  
2764 2832 2      [DSC$L_L1] = 1,  
2765 2833 2      [DSC$L_U1] = LENGTH); %;  
2766 2834 2  
2767 2835 2      PLISVARYING_CHARACTER_ARRAY('PWD', N_WORDS, MAX, 'HYPH', N_WORDS, 2*MAX);  
2768 2836 2  
2769 2837 2  
2770 2838 2      Build the prompt string  
2771 2839 2  
2772 2840 2  
2773 2841 2      ch$move(.TLENGTH, .THIS, PROMPT[8]);  
2774 2842 2      ch$move(11, P2, PROMPT[8+.TLENGTH]);  
2775 2843 2  
2776 2844 2      PLENGTH = 8 + .TLENGTH + 11;  
2777 2845 2  
2778 2846 2  
2779 2847 2      Open a channel to the user  
2780 2848 2  
2781 2849 2  
2782 2850 2      SYSS$ASSIGN(%ascid'SYSS$COMMAND:', CHANNEL, 0, 0);  
2783 2851 2      NEW_PASSWORD[DSC$W_LENGTH] = 0;  
2784 2852 2  
2785 2853 2  
2786 2854 2      Generate random passwords ...  
2787 2855 2  
2788 2856 2  
2789 2857 2      while .NEW_PASSWORD[DSC$W_LENGTH] eql 0 do  
2790 2858 2      begin  
2791 2859 2  
2792 2860 2      own  
2793 2861 2      BUFFER: vector[128, byte],  
2794 2862 2      IOSB: vector[4, word],  
2795 2863 2      LISTED;  
2796 2864 2
```

```
: 2797 2865 3 LISTED = FALSE;
: 2798 2866 3
: 2799 2867 3 SYSSQIOW(0, .CHANNEL, IOS_WRITEVBLK, 0,0,0, 0, 0, 0, 32, 0,0);
: 2800 2868 3
: 2801 2869 3 GENERATE PASSWORDS(PWD DSC, HYPH DSC,
: 2802 2870 3   uplit(MIN), uplit(MAX), uplit(N_WORDS));
: 2803 2871 3
: 2804 2872 3 SYSSQIOW(0, .CHANNEL, IOS_WRITEVBLK, 0,0,0, 0, 0, 0, 32, 0,0);
: 2805 2873 3
: 2806 2874 3   incr i to N_WORDS-1 do
: 2807 2875 4   begin
: 2808 2876 4     DSC[DSC$W_LENGTH] = .PWD[i, 0, 0, 16, 0];
: 2809 2877 4     DSC[DSC$A_POINTER] = PWD[i, 2, 0, 0, 0];
: 2610 2878 4     STR$UPCASE(DSC, DSC);
: 2811 2879 3   end;
: 2812 2880 3
: 2813 2881 3   while not .LISTED do
: 2814 2882 4   begin
: 2815 2883 4
: 2816 2884 4     SYSSQIOW(0, .CHANNEL, .FUNCTION, IOSB, 0, 0,
: 2817 2885 4       BUFFER, 127, 0, 0, PROMPT, .PLENGTH);
: 2818 2886 4
: 2819 2887 4     if .BUFFER[IOSB[1]] eq 26 then ! CTRL/Z
: 2820 2888 4       return LIB$SIGNAL(UAF$PWDNCH, 2, .TLENGTH, .THIS)
: 2821 2889 4     else if .IOSB[1] eq 0 then
: 2822 2890 4       exitloop;
: 2823 2891 4
: 2824 2892 4     incr i to N_WORDS-1 do
: 2825 2893 4       LISTED = .LISTED or
: 2826 2894 4         ch$eq(.IOSB[1], BUFFER,
: 2827 2895 4           .PWD[i, 0, 0, 16, 0], PWD[i, 2, 0, 0, 0]);
: 2828 2896 4
: 2829 2897 4     if .LISTED then
: 2830 2898 5     begin
: 2831 2899 5       NEW_PASSWORD[DSC$W_LENGTH] = .IOSB[1];
: 2832 2900 5       LIB$GET_VM(%ref(.IOSB[1]), NEW_PASSWORD[DSC$A_POINTER]);
: 2833 2901 5       ch$move(.IOSB[1], BUFFER, .NEW_PASSWORD[DSC$A_POINTER]);
: 2834 2902 5     end
: 2835 2903 4     else
: 2836 2904 4       LIB$SIGNAL(UAF$PWDNOL);
: 2837 2905 4
: 2838 2906 3   end;
: 2839 2907 3
: 2840 2908 2   end;
: 2841 2909 2
: 2842 2910 2   !
: 2843 2911 2   !   That's all folks ...
: 2844 2912 2   !
: 2845 2913 2
: 2846 2914 2   return SYSSDASSGN(.CHANNEL);
: 2847 2915 2
: 2848 2916 1 end;
```

.PSECT \$SPLITS,NOWRT,NOEXE,2


```

00 20 3A 64 72 6F 77 73 73 61 70 20 00534 P.AFS: .ASCII \ password: \<0>
3A 44 4E 41 4D 4D 4F 43 24 53 59 53 00540 P.AFU: .ASCII \SYS$COMMAND:\
010E000C 0054C P.AFT: .LONG 17694732
00000000 00550 .ADDRESS P.AFU
00000006 00554 P.AFV: .LONG 6
0000000A 00558 P.AFW: .LONG 10
00000005 0055C P.AFX: .LONG 5

.PSECT $OWNS$,NOEXE,2

00# 00134 CHANNEL: .BLKB 4
01 00138 DSC: .BYTE 0[3]
0013B .BYTE 1
0013C .BLKB 4
00000177 00140 FUNCTION:
00144 PLENGTH: .BLKB 4
20 72 65 74 6E 45 0A 0D 00148 PROMPT: .BYTE 13, 10, 69, 110, 116, 101, 114, 32
00150 .BLKB 37
00175 .BLKB 3
00178 PWD: .BLKB 60
000A 00184 PWD_DSC: .WORD 10
0C 25 00186 .BYTE 37, 12
00000000 00188 .ADDRESS PWD
00# 001BC .BYTE 0[3]
01 001BF .BYTE 1
00# 001C0 .BYTE 0[4]
00000000 001C4 .ADDRESS PWD-12
00000005 00000001 0000000C 001C8 .LONG 12, 1, 5
001D4 HYPH: .BLKB 110
00242 .BLKB 2
0014 00244 HYPH_DSC:
0C 25 00246 .WORD 20
00000000 00248 .BYTE 37, 12
00# 0024C .ADDRESS HYPH
01 0024F .BYTE 0[3]
00# 00250 .BYTE 1
00000000 00254 .BYTE 0[4]
00000005 00000001 00000016 00258 .ADDRESS HYPH-22
00264 .LONG 22, 1, 5
00264 BUFFER: .BLKB 128
002E4 IOSB: .BLKB 8
002EC LISTED: .BLKB 4

```

P2= P.AFS

.PSECT \$CODE\$,NOWRT,2

```

03FC 00000 AUTHORIZE GENERATE:
00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9
59 00000000G 00 9E 00009 MOVAB LIB$SIGNAL, R9
58 00000000G 00 9E 00010 MOVAB SY$QIOW, R8
57 00000000' 00 9E 00017 MOVAB P2, R7
56 00000000' 00 9E 00017 MOVAB CHANNEL, R6
5E 04 C2 0001E SUBL2 #4, SP
1C A6 08 BC 0C AC 28 00021 MOVCL TLNGTH, @THIS, PROMPT+8

```

2752

2841

OC BC40	50	1C	A6	9E	00028	MOVAB	PROMPT+8, R0	2842
10 A6	67		0B	28	0002C	MOVCS	#11, P2, @TLENGTH[R0]	
OC AC			13	C1	00032	ADDL3	#19, TLENGTH, PLENGTH	2844
			7E	7C	00038	CLRQ	-(SP)	2850
			56	DD	0003A	PUSHL	R6	
00000000G	00	18	A7	9F	0003C	PUSHAB	P.AFT	
			04	FB	0003F	CALLS	#4, SYSS\$ASSIGN	
		04	BC	B4	00046	CLRW	@NEW_PASSWORD	2851
		04	BC	B5	00049	TSTW	@NEW_PASSWORD	2857
			03	13	0004C	BEQL	2\$	
		0111	31	0004E	BRW	11\$		
		01B8	C6	D4	00051	CLRL	LISTED	2865
			7E	7C	00055	CLRQ	-(SP)	2867
			20	DD	00057	PUSHL	#32	
			7E	7C	00059	CLRQ	-(SP)	
			7E	7C	0005B	CLRQ	-(SP)	
			7E	7C	0005D	CLRQ	-(SP)	
			30	DD	0005F	PUSHL	#48	
			66	DD	00061	PUSHL	CHANNEL	
			7E	D4	00063	CLRL	-(SP)	
	68		OC	FB	00065	CALLS	#12, SYSS\$QIOW	
		28	A7	9F	00068	PUSHAB	P.AFX	2870
		24	A7	9F	0006B	PUSHAB	P.AFW	
		20	A7	9F	0006E	PUSHAB	P.AFV	
		0110	C6	9F	00071	PUSHAB	HYPH_DSC	2869
		0080	C6	9F	00075	PUSHAB	PWD_DSC	
00000000G	00		05	FB	00079	CALLS	#5, -GENERATE_PASSWORDS	
			7E	7C	00080	CLRQ	-(SP)	2872
			20	DD	00082	PUSHL	#32	
			7E	7C	00084	CLRQ	-(SP)	
			7E	7C	00086	CLRQ	-(SP)	
			7E	7C	00088	CLRQ	-(SP)	
			30	DD	0008A	PUSHL	#48	
			66	DD	0008C	PUSHL	CHANNEL	
			7E	D4	0008E	CLRL	-(SP)	
	68		OC	FB	00090	CALLS	#12, SYSS\$QIOW	
			52	D4	00093	CLRL	I	2874
50	52		OC	C5	00095	MULL3	#12, I, R0	2876
		44	A640	9F	00099	PUSHAB	PWD[R0]	
			9E	B0	0009D	MOVW	@(SP)+, DSC	
	04 A6	46	A640	9E	000A1	MOVAB	PWD+2[R0], DSC+4	2877
	08 A6	04	A6	9F	000A7	PUSHAB	DSC	2878
		04	A6	9F	000AA	PUSHAB	DSC	
00000000G	00		02	FB	000AD	CALLS	#2, STR\$UPCASE	
DD	52		04	F3	000B4	AOBLEQ	#4, I, 3\$	2874
	8C	01B8	C6	E8	000B8	BLBS	LISTED, 1\$	2881
		10	A6	DD	000BD	PUSHL	PLENGTH	2885
		14	A6	9F	000C0	PUSHAB	PROMPT	2884
			7E	7C	000C3	CLRQ	-(SP)	
	7E	7F	8F	9A	000C5	MOVZBL	#127, -(SP)	
		0130	C6	9F	000C9	PUSHAB	BUFFER	
			7E	7C	000CD	CLRQ	-(SP)	
		01B0	C6	9F	000CF	PUSHAB	IOSB	
		OC	A6	DD	000D3	PUSHL	FUNCTION	
			66	DD	000D6	PUSHL	CHANNEL	
			7E	D4	000D8	CLRL	-(SP)	
	68		OC	FB	000DA	CALLS	#12, SYSS\$QIOW	

50	01B2	C6	3C	000DD	MOVZWL	IOSB+2, R0	2887
1A	0130	C640	91	000E2	CMPB	BUFFER[R0], #26	
		12	12	000E8	BNEQ	5\$	
	08	AC	DD	000EA	PUSHL	THIS	2888
	0C	AC	DD	000ED	PUSHL	TLENGTH	
		02	DD	000F0	PUSHL	#2	
69	00000000G	8F	DD	000F2	PUSHL	#UAF\$ PWDNCH	
		04	FB	000F8	CALLS	#4, LIB\$SIGNAL	
			04	000FB	RET		
		50	D5	000FC	5\$: TSTL	R0	2889
		03	12	000FE	BNEQ	6\$	
		FF46	31	00100	BRW	1\$	
		54	D4	00103	6\$: CLRL	I	2892
50	54	0C	C5	00105	7\$: MULL3	#12, I, R0	2895
		55	D4	00109	CLRL	R5	
9E	00	0130	C6	01B2	44 A640 9F 0010B	PUSHAB	PWD[R0]
				46 A640	2D 0010F	CMPCS	IOSB+2, BUFFER, #0, @ (SP)+, PWD+2[R0]
				02	12 0011B	BNEQ	8\$
				55	D6 0011D	INCL	R5
	01B8	C6		55	C8 0011F	8\$: BISL2	R5, LISTED
DD		54		04	F3 00124	AOBLEQ	#4, I, 7\$
		29	01B8	C6	E9 00128	BLBC	LISTED, 9\$
		50	01B2	C6	3C 0012D	MOVZWL	IOSB+2, R0
	04	BC		50	B0 00132	MOVW	R0, @NEW PASSWORD
		52	04	AC	D0 00136	MOVL	NEW PASSWORD, R2
			04	A2	9F 0013A	PUSHAB	4(R2)
	04	AE		50	D0 0013D	MOVL	R0, 4(SP)
			04	AE	9F 00141	PUSHAB	4(SP)
04	B2	00000000G	00	02	FB 00144	CALLS	#2, LIB\$GET VM
		0130	C6	01B2	C6 28 0014B	MOVCS	IOSB+2, BUFFER, @4(R2)
				09	11 00154	BRB	10\$
		00000000G	8F	DD	00156	9\$: PUSHL	#UAF\$ PWDNOL
69			01	FB	0015C	CALLS	#1, LIB\$SIGNAL
			FF56	31	0015F	10\$: BRW	4\$
			66	DD	00162	11\$: PUSHL	CHANNEL
	00000000G	00	01	FB	00164	CALLS	#1, SYSSDASSGN
			04	0016B	RET		2916

; Routine Size: 364 bytes, Routine Base: \$CODE\$ + 13EF

; 2849 2917 1
; 2850 2918 1 end
; 2851 2919 0 eludom

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	1376	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	752	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

UAFPARSE
V04-000

AUTHORIZE_GENERATE -- Interface to PL/I GENERAT

J 1
16-Sep-1984 02:21:19
14-Sep-1984 13:21:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFPARSE.B32;1 (28)
Page 106

```
: LIB$KEYOS      4 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: LIB$STATES    158 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: LIB$KEY1S     19 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: $CODES      5467 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
```

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	30	71	14	00:00.1
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	125	0	1000	00:02.2

COMMAND QUALIFIERS

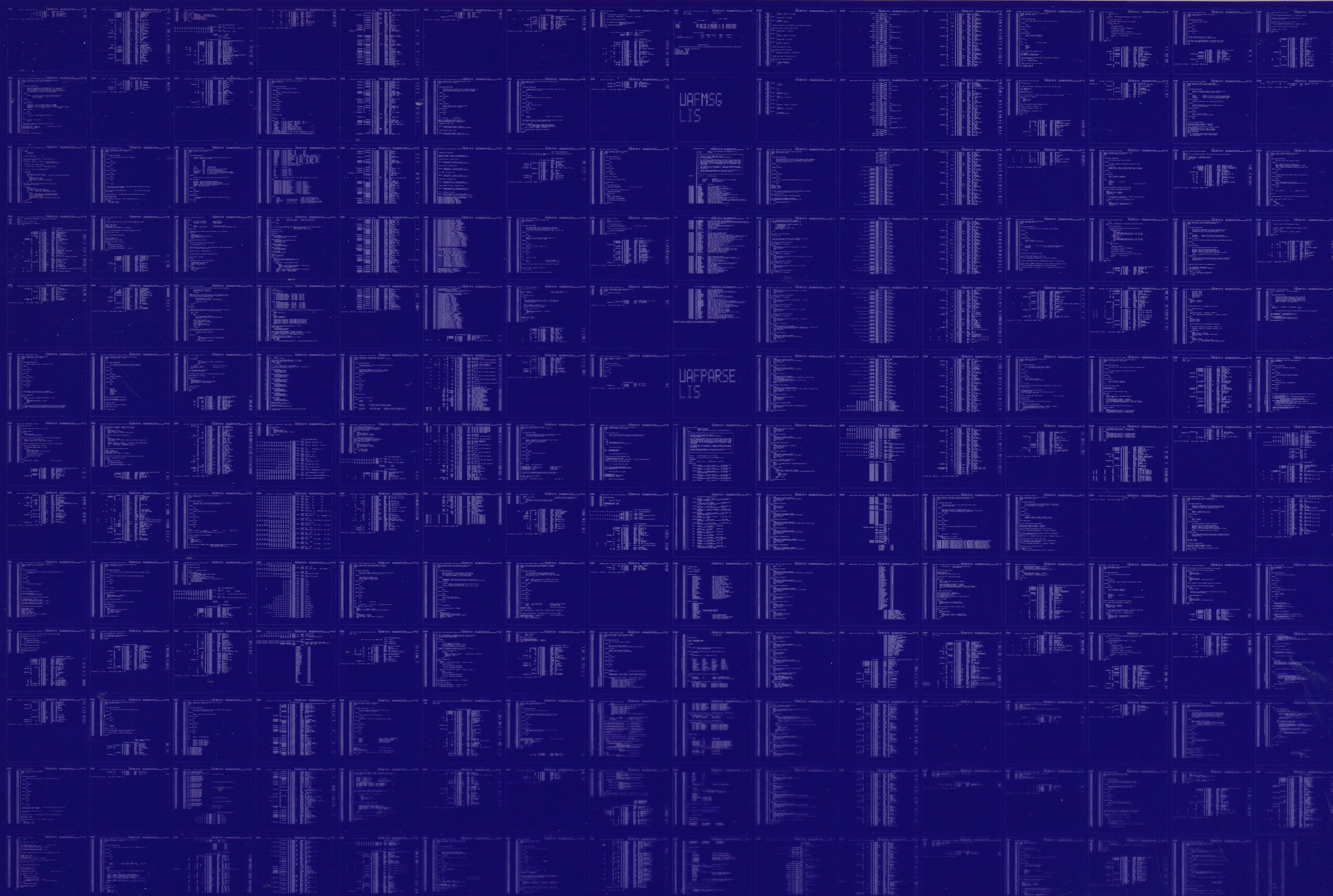
BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:UAFPARSE/OBJ=OBJ\$:UAFPARSE MSRC\$:UAFPARSE/UPDATE=(ENH\$:UAFPARSE)

```
: Size:          5467 code + 2309 data bytes
: Run Time:      01:43.8
: Elapsed Time:  01:50.7
: Lines/CPU Min: 1686
: Lexemes/CPU-Min: 26833
: Memory Used:   685 pages
: Compilation Complete
```

Sy
--
LI
PR
SA
SY
SY
SY
SY
SY
SY
SY
SY

0407 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY



0408 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

UETP	SATSSF18 MAP	SATSSS10 MAP	UETDMPF00 MAP	UETFORT01 MAP	UETNRMS01 MAP	UETTTYS00 MAP	UETIDBDEF SQL
SATSSF17 MAP	SATSSS09 MAP	UETDISK00 MAP	UETFORT03 MAP	UETNETS00 MAP	UETTAPE00 MAP	TNTRLDEF SQL	UETUNT SQL
UETP	SATSSF17 MAP	UETDR1W00 MAP	UETFORT02 MAP	UETPHAS00 MAP	UETUNAS00 MAP	SYSTSTMAC MAR	
SATSSS09 MAP	UETCOMS00 MAP	UETLBAK00 MAP					